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THIRTIETH ANNUAL REPORT

OF THE

4511

DEPARTMENT OF MARINE AND FISHERIES

1897

FISHERIES

PRINTED BY ORDER OF PARLIAMENT



O T T A W A

PRINTED BY S. E. DAWSON, PRINTER TO THE QUEEN'S MOST

EXCELLENT MAJESTY

1898

CANTRA (MORVEO) (C. J. C.)

To His Excellency the Right Honourable SIR JOHN HAMILTON-CAMPBELL GORDON, EARL OF ABERDEEN, Governor General of Canada, etc., etc.

MAY IT PLEASE YOUR EXCELLENCY:

I have the honour to submit herewith, for the information of Your Excellency and the Legislature of Canada, the Thirtieth Annual Report of the Department of Marine and Fisheries, Fisheries Branch.

I have the honour to be,

Your Excellency's most obedient servant,

LOUIS HENRY DAVIES,

Minister of Marine and Fisheries.

DEPARTMENT OF MARINE AND FISHERIES, OTTAWA, 31st December, 1897.

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REPORT OF THE DEPUTY MINISTER.

To the Honourable
Sir Louis H. Davies, K.C.M.G.,
Minister of Marine and Fisheries.

Sir,—I have the honour to submit the annual report of the Fisheries Branch of the Department of Marine and Fisheries for the fiscal year ending on the 30th June, 1897. The Fisheries Protection Service, the Fish-culture and Behring Sea Reports comprise the whole calendar year to the 31st December, 1897. In doing so it is interesting to recall the fact that precisely thirty years have elapsed since the department was organized and the fisheries of the Dominion placed under the supervision of a Minister of the Crown at Ottawa. During these three decades the fishing industries have grown with remarkable rapidity, and it cannot be questioned that the enforcement of fishery laws and regulations, and the general administration of the fisheries from the capital, have had on the whole beneficial and salutary results.

At the date of Confederation a branch of the Department of Crown Lands for the United Provinces of Upper and Lower Canada was responsible for this administrative work. This branch organized in 1859 had done useful work; but in the provinces of Nova Scotia and New Brunswick, where the fisheries were of the highest value and importance, no parallel organization existed. It is true that in these two provinces there existed a body of statutory and municipal regulations, but failing effective machinery to carry these regulations out, and in the absence of a proper system under which the restrictions could be enforced, these regulations and restrictions were practically a dead letter. "The fisheries were subject to serious abuses," it was stated authoritatively at the time, "that in many respects had already reduced them almost to exhaustion." The work of regulation, protection and development effected a beneficial change, and encouraging results attended the efforts of the department. Where the existing fishery laws could, by slight changes and improvements, be made more serviceable this was done, and a staff of officers was organized to enforce these amended regulations. In the "Fisheries Act" of 1867, under which the fishery laws of Nova Scotia were practically left intact, and the New Brunswick Acts incorporated, there were consolidated the various provincial regulations, with power provided for altering them from time to time, and substituting new and improved by-laws.

11а—в

The code of fishery regulations resulting from attempts year after year to make them more effective by additions and amendments, has been regarded by other countries as beneficial to our fisheries and worthy of imitation. Thoughtful men in various States of the neighbouring republic have repeatedly expressed their approval and admiration of the system of fishery conservation and improvement in Canada. In the last report of the Michigan State Fish Commissioners published this year (1897) reference is made to the unwisdom of the policy of non-protection, i.e., of free fishing, adopted in many States, "especially" to quote from the Commissioners' report (pp. 16 and 17).

"When we consider that the country lying opposite our border, having an extent of territory on the Great Lakes far exceeding that of our own and adjoining states, long since awakened to the necessity of conserving her fisheries. Without taking advice from her neighbours or awaiting their action she went sturdily, forcefully and promptly to work to enact regulations which have resulted in preserving her waters to a point where her fisheries are more profitable than our own. We refer to the Dominion of Canada, whose fisheries have been watched over and cared for by men keenly alive to their importance and the necessity for their preservation. Her territory is opposed to our own on our entire eastern coast and to the greater part of our Lake Superior coast.

"The extent of our coast adjoining Ohio is small, but that state has passed more laws for the protection of her fisheries than our own and so has Minnesota. Wisconsin has but a small amount of border compared with ours and her fisheries are

insignificant in extent or value with Michigan's.

"Illinois has ceased to be a fish producing state. So has Indiana, which has but a fragment of frontage on the great lakes. Both of these states have permitted their fisheries to be destroyed without an effort to prevent it. So there can be no

expectation they will take action in this regard.

"Canada protects her fish by the imposition of a close season for all the lakes, of the month of November, which is the great spawning month of the whitefish and salmon trout. She also prescribes the number of pounds that may be set in a string, the number of strings in a locality, the size of the mesh, the distance nets shall be set from shore, and the manner in which they may be set in channels. She also imposes a license upon nets and boats, and in other respects exercises a complete control over an industry she appreciates to be of great material value.

"Intelligent laws should be passed and enforced, permitting the taking of adult fish, and leaving the smaller ones to come to maturity. Opportunity should be afforded the gravid fish to spawn unmolested. If this be done, with the large output of artificially hatched fish now being put in the lakes, we know that the waters of our state will in a few years again teem with the whitefish and salmon trout. The food of the young and of the adult fish is as plentiful now as it ever has been, and if by the enactment and enforcement of just laws we throw the protection about the fisheries they need, and which the commonest intelligence must see is necessary for their preservation, we shall have ever ready at hand a wholesome food, abundant in quantity, cheap in price, that has grown to maturity, without cost or care.

"Objection has always been raised by the opponents of the regulation of the fisheries, that we should secure co-operation from adjoining states and secure a uniformity of statute in all. The fallacy of this argument so far as our own fisheries are concerned, is apparent. But if we admit that as the argument, would it not be an equally bad policy for the state to attempt to stamp out epidemic diseases, unless adjoining states would agree to take similar action? Facts show that Michigan has more value in her fisheries than any other adjoining state, and under such conditions

the first duty of the state is to attend to its own material interests.

"The state has taken pains to surround the game fish, like the brook trout, the game birds, and the game quadrupeds of this state with the most rigid laws protecting them from interference during their period of reproduction, and for a

sufficient time thereafter to protect the young until they can care for themselves; yet the state has not invested a single dollar in the propagation of any of these, except the brook trout, neither does it derive any substantial return from their capture. Stringent laws have been passed and are rigidly enforced to protect the peach orchards of the state from the scourge known as the "yellows." Such laws are just, and have been adopted and are rigorously enforced in the interest of the public good; but the great commercial fisheries of the state that yield a million of dollars yearly at the wholesale price, are constantly subjected to the most destructive methods of fishing, with the certain prospect that in a short time they will become absolutely extinct. If there is any one thing in the state that deserves protection, it is the commercial fisheries. It is not only a matter of the greatest concern to our present population, but it is of vital interest to those who are to come after us."

There is, of course, no doubt that wise protection of spawning fish and judicious limitation of fishing operations to prevent overfishing must in the long run restore endangered or depleted fisheries; but on the Great Lakes the steps taken by this department have been only partial in their effects an account of the reverse policy pursued in the United States portion of these prolific waters. The department has indeed been constrained to carry out concessions and relaxations, and the remarks of Mr. Herschell Whitaker, so well known as a Fish Commissioner for the State of Michigan and one of the most enlightened and enthusiastic advocates of fish preservation in these international inland waters may be quoted. Referring to one of these Orders in Council which nullified certain protective provisions in the fishery regulations of Canada, Mr. Whitaker observes:

"The effect of this order meant a notice to the Canadian fishermen that until further notice they could join their American fellow-fishermen in working the final

destruction of the commercial fisheries of the lakes.

"The Canadian government exhibited wisdom in making the original order. The reasons for its promulgation were founded on the experience of years of observation of the pernicious and ruinous effect of the practices of the netters on the lakes. The enforcement of the order was wholesome and resulted in better fishing in their waters than in ours. Ever since the order was given effect, the Department of Marine and Fisheries has sought by every means in its power, to urge upon those entrusted with the passage and enforcement of laws for the regulation of the fisheries upon the American side of the waters, the necessity of a co-operation with them in the passage and enforcement of a similar act. They have had occasion to feel disheartened at the result. They have had further to bear the importunities of the lake fishermen of the different provinces and the petty politicians for a revocation of the order, because the states bordering the lakes upon the other side permitted their fishermen to fish at any and all times and with all sorts of devices. And so, at last, the order has been revoked—in a spirit of weakness, perhaps—until such time as the states shall see fit to join the Dominion in an effort to protect the fisheries.

"No action, either public or private, concerning the fisheries of this country, has ever been taken which may be more pregnant of evil, or perhaps of good result, if we shall profit by the lesson, than this order of revocation. The result must depend on future action or non-action on the part of the states whose territory is co-extensive with that of Canada on the lakes, in moving for the preservation of the great lake fisheries, by the passage of just and reasonable laws controlling the fishermen. While the action of the Department of Marine and Fisheries is one to be deeply regretted it has been, perhaps, in a measure justified by the absolute lack of co-operation on the part of the bordering states in meeting the Canadians upon this question in a spirit of fairness, and with a desire to protect the public's interests."

(Trans. Am. Fisheries Society 1895, pp 61 & 62).

EXPENDITURE AND REVENUE.

The details of the total expenditure for the different fisheries services during the last fiscal period, amounting to \$443,586, will be found in the first appendix of this report. This comprises fisheries proper, \$99,731; fish-culture, \$27,330; fisheries protection service, \$99,357; miscellaneous expenditure, \$62,777, besides the \$154,389 distributed as fishing bounties.

The total amount received during the same period as revenue from fishery licenses, fines, &c., in the different provinces of Canada is given at \$106,469.

This amount also includes the *modus vivendi* licenses granted to United States fishing vessels. See page 7.

FISHING BOUNTIES.

The sum of \$154,389 was paid to the deep-sea fishermen of the Maritime Provinces during the year 1896. Of this amount, \$57,014 were divided amongst 862 vessels manned by 5,665 men, and \$97,385 amongst 23,821 fishermen using 14,106 boats. The total number of claims paid for bounty was 14,975.

Since its inception (1882), over two million and a quarter dollars were paid by this department to encourage the Canadian fishermen in developing our sea fisheries.

The regulations governing the payment of said bounty are given in detail in Appendix No. 2 of this volume, as well as a complete list of all vessels having received such bounty for the year 1896.

GENERAL STATISTICS OF FISHERIES.

EXTENT OF COAST.

The fisheries of Canada are the most extensive in the world, comprising an immense sea-coast line, besides innumerable lakes and rivers. The eastern sea-coast of the Maritime Provinces from the Bay of Fundy to the Straits of Belle Isle covers a distance of 5,600 miles, and that of British Columbia is given at 7,180 miles, that is more than double that of Great Britain and Ireland.

While the salt water inshore area, not including minor indentations, covers more than 1,500 square miles, the fresh water area of that part of the great lakes belonging to Canada is computed at 72,700 square miles, not including the numerous lakes of Manitoba and the Territories all stocked with excellent species of food fishes.

VALUE OF THE FISHERIES.

The value of the sea and inland fisheries in 1857 was estimated at under one million dollars, and in 1859 they were valued at about a million and a half dollars, but in 1867 they had reached \$4,000,000; in 1877 \$12,000,000; in 1887 \$18,386,000, and in 1896 \$20,400,000.

This amount is subdivided by provinces as follows, showing the fluctuations as compared with the previous year:—

Provinces.	Value.	Increase.	Decrease.
Nova Scotia New Brunswick. British Columbia. Quebec Ontario. Prince Edward Island Manitoba and North-west Territories	\$ 6,070,895 4,799,433 4,183,999 2,025,754 1,605,674 976,126 745,543	396,275 157,834 21,201	\$ 142,236 217,355 710 6,923

While the provinces of New Brunswick, Quebec and Ontario gave an aggregate increase of \$575,310, the other provinces show a decrease of \$367,224, making a net surplus of \$208,086 over the total value of last year. The various fluctuations are fully explained in the different inspectors' reports comprised in Appendices 3 to 10.

The above does not include the large quantity of fish consumed by the Indian population of British Columbia.

The comparative tables at page xviii give the totals for each period of twelve months during the last twenty-seven years, but the above figures sufficiently show how considerable has been the progressive advance in value of the Canadian fisheries.

The following table shows the relative values of the principal kinds of commercial fishes (above \$100,000) for the year 1896 as compared with the values of the preceding year:—

Kinds of Fish.	Amount.	Increase.	Decrease.
	Š		. *
almon	4,001,679	268,962	
Cod	3,619,385		19.13
Herring	2,909,744	123,228	
obsters	2,205,762		4,33
Vhitefish	773,345	6,038	
fackerel	727,743		8,91
rout	713,449	10,860	
melts	498,539	47,431	
addock	493,384	48,681	
ake	276,620	65,764	
ickerel	274,931		28,36
alibut	253,435		17,46
ollock	221,118	72,351	
lewives	209,194	16,762	
ardines	205,249		218,24
ysters	194,296	2,000	
turgeon	152,757		2,41
om cod and frost fish	137,832		69
els	132,942		18,49

The quantity of fish used as bait is valued at \$384,219, and that of fish oil at \$224,633. The seal skins are valued at \$520,250.

With the exception of salmon which shows an increase of over a quarter of a million dollars, of herring of over \$100,000, and the falling off in the sardine industry, the other fluctuations in the values of the principal kinds of fish as compared with the previous yield are not very considerable, as a glance at the above table will show. The large surplus noted in the salmon yield is not only due to an immense pack in the British Columbia salmon industry, but also to the improved catch of fresh salmon in the Maritime Provinces. The decline in the sardine industry is chiefly from New Brunswick, where the strikes in the neighbouring state during the packing season necessarily limited the production for want of markets.

Between the years 1869 and 1896 inclusive the five principal commercial fisheries have yielded as follows:—

Cod	\$106,433,217
Herring	54,373,042
Lobsters	48,964,860
Salmon	45,740,470
Mackerel	37,589,835

RECAPITULATION

OF the yield and value of the Fisheries in the Dominion of Canada for the Year 1896.

No.	Kinds of Fish.	Quantity.	Value.	Total Value.
			\$	
1	Cod, dried Cwt.	809,608	3,610,935	
2	do tongues and sounds. Brls.	845	8,450	3,619,388
3	Salmon, preserved in cans Lbs.	29,872,740	2,988,258	
4 5	do fresh " do pickled Brls.	5,439,942 3,186	965,029 36,498	
6	do smoked Lbs.	49,133	11,894	4,001,67
7	Herring, salted Brls.	490,171	2,183,559	1,001,01
8	do fresh Lbs.	22,289,796	504,893	
9	do smoked	10,980,430	221,292	2,909,74
10 11	Mackerel, salted Brls. do fresh Lbs.	37,765 $2,427,972$	528,710 199,033	727,743
12	Lobster, preserved in cans.	10,906,638	1,526,928	121,13
13	do alive or fresh	8,988	678,834	2,205,765
14	Hake, dried Cwt.	94,808	241,687	
15 16	do sounds. Lbs. Haddock, dried Cwt.	$69,867 \\ 125,122$	34,933 421,204	276,62
17	do smoked (finnan haddies)	1,116,000	72,180	493,38
18	Pollock, dried	88,781		221,113
19	Trout Lbs.	6,950,986	690,699	
$\frac{20}{21}$	do Brls.	2,275 $13,374,000$	22,750	713,449
$\frac{21}{22}$	Whitefish Lbs. Smelts "	9,970,805		773,34 498,53
23	Halibut. "	3,672,625		253,43
24	Shad	8,586		87,37
25	Eels Lbs.	1,037,535	62,252	100.04
26 27	do Brls.	7,333 $52,616$	70,690	132,945 209,194
28	Alewives. "Sardines "	86,981	176,414	200,10
29	do preserved	576,700	28,835	205,249
30	Bass Lbs.	1,294,595		94,44
31	Pickerel. "Pike	6,897,810 3,594,790		274,933 99,003
32 33	Pike " Maskinongé "	807,950	,	48,47
34	Sturgeon	2,403,801		152,75
35	Squid Brls.	24,500		98,000
36	Flounders Lbs.	189,159		9,61
37 38	Ouananiche " Oysters Brls.	90,000 48,574		5,40 194,29
39	Clams	19,791		70,96
40	Clams. " Perch Lbs. Tom cod or frost fish. "	1,333,550		38,84
41	Tom cod or frost fish ""	2,657,465		137,833 29,55
42	Ourachons	581,500 104,832		284,63
43	Coarse and mixed fish	1,894,856		287,89
45	Fur seal skins (British Columbia)	55,677		501,09
46	Hair do "	16,808		19,15
47	Sea Otter skins	$\begin{array}{c} 23 \\ 222 \end{array}$		$\frac{4,02}{5,32}$
48 49	Beluga (white whale) " Fish oils Galls.	557,140		224,63
50	do used as bait	256,146		384,21
51	do do manure	127,658		63,83
52	do guanoTons.	3,416		49,54
	Total for 1896			20,407,42 20,199,33
	do 1895	/		20, 100,00
	Increase			208,08

STATEMENT of the Production of each Branch of the Fisheries

		Nova	Scotia.	New Br	UNSWICK.	Britisi
, unimer	Kinds of Fish.	Quantity.	Value.	Quantity.	Value.	Quantity.
			Š		8	
	Cod, dried Cw				489,946	
2	do tongues and sounds Brl Salmon, preserved in cans Lt				590 1,659	
1	do fresh '	537,920			527,513	
5		s. 408	6,528	16	256	2,41
3	do smoked Lk Herring, salted. Br		$ \begin{array}{ccc} 3 & 1,557 \\ 6 & 689.352 \end{array} $		1,044,981	41,35 1.00
8	do fresh Lt	s. 508,89	5,406	13,469,760	269,395	
9		712,50			203,912	
1	Mackerel, salted Br. do fresh Lk		5 354,830 7 113,754		19,964 83,877	
2	Lobster, preserved in cans '	5,363,30	750,861	2,355,807	329,813	
34		18. $7,62$	7 572,044			
5						
	Haddock, dried Cw	t. 102 35	4 341,516	20,616	72,156	
78	do smoked. Lk Pollock, dried. Cw	os. 321,000 t. 42,83	$ \begin{array}{ccc} 0 & 25,680 \\ 5 & 106,253 \end{array} $	795,000 45,946	46,500 114,865	
9	Trout Lk	s. 127,96	12,796	176,140		
0		s				
9		494 89			415,503	55,00
3	Halibut '	1,017,70	7 101,771		21,562	
4 %	Halibut Shad Br Eels Lt	ls. 2,10	5 21,050	5,731	57,310	
6	do Bri	s. 3,58	35,870	2,769	27,690	
7	Alewives '	17,14	1 67,293	34,585	138,340	
8					167,208	
0	do Car Bass Lk Pickerel	s. 6,58			34,806	
1	Pickerel			132,300	6,615	
3	Maskinonge	6				
4	Sturgeon	6		28,800		380,50
5 6	Sturgeon Squid Br. Flounders Lb.	ls. 20,400 109,680			6,384	
7	Ouananiche.	109,00	5,484	79,479	4,129	
8	Oysters Brl				58,800	
n	Perch	4,40		10,578	24,399	3,00
1	Tom Cod or frost fish '	82.79		2,570,870	128,544	
2	Oulachons					581,50
4	Coarse or mixed fish	s. 16,63		24,027	48,464	
5	Fur, seal skins, B.C No	0				55,67
5	Hair do 'Sea Otter skins	1,10	3 1,373	21	. 29	3,70
8	Beluga (white whale) skins	6				2
9	Fish oilsGal	ls. 243,650			30,007	61,50
0	Fish used as baitBri			94,759		
	do manure	17,399 ns. 999				
	Totals:		6,070,895		4,799,433	

in the different Provinces of Canada for the Year 1896.

Columbia	Que	BEC.	Ont	ARIO.	PRINCE I	EDWARD	Mani N. W. Te	(D
Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
*		\$		\$		\$		\$
14,360	189,417	852,376			22,817			
	211	2,110			1 500	10		
2,985,305 122,959 24,130	1,034,856 349	206,971 5,584			900			
10,338	45 450	001.050	9 252	15 007	40 609	999 879		
5,000 5,730 2,105	1,777,700	$204,656 \\ 35,154 \\ 1,021$	6,289,166	15,997 188,675	49,683 53,275 200 4,159	533		
∠, LU()	6,835	95,690			4,159	58,226		
				1	11,680	1,402		
• • • • • • • • •	1,158,822	162,235 300			2,028,709		********	
	,				14,045 27,920 1,230	42,135		
		3,227			27,920	13,960		
* * * *	922	3,227						
6,450	494,300	49,430	5,975,661	597,566 22,750	24,425	2,443	88,000 9,794,760	4,400
	132,927	10,634	2,275 3,432,560	272,283			9,794,760	489,738
2,750	431,645	21,582		* * * * * * * * * * * * * * * * * * * *	679,200	33,960		
113,828	160,642 750	16,064			2,100	210		
	897,550	53,853	139,985	8,399				
	317	3,170			660	3,960		
*********	2,802	8 406			090	3,500		
. 1 * *	99,200							
	119,465	10,248	804,155	48,249			16,000 3,497,970 2,324,045 267,748	104.939
* * * * * * . * * *	268,945 169,695	13,447 8,485	2,990,090	44.042			2,324,045	46,481
	48,590	2,915	759,360	45,562			007 710	10 905
19,025	136,618 2,351	7,799 9,404	1,590,135	110,130	151	604	267,748	15,587
	2,591				101			
• • • • • • • • • • • •	90,000	5,400	,		20.014	100 050		
4,800 9,022		7 185			50,214	1,683		
0,022	156,596	7,185 4,698	1,111,160	33,335			65,800	808
***		4,960			3,800	190		
29,550 46,154	8,957	27,847	17,188	68,755	700	1,400	65,800 21,938 1,894,856	47,412 37.897
250,000 501,093			***** /*					
2,775	11,984	14,980						
4,025								
24,600	222 162,655	5,328 65,062			18,763	7,505		
24,000	51,052	76,578			33,916	50,874		
	29,969				125 1 790	17,900		

4 183 999		2 025 754		1,605,673		976,125		745,542

RECAPITULATION

SHOWING the Total Value of the Fisheries in the respective Provinces of Canada, from 1870 to 1896, inclusive, as compiled from the Annual Reports of the Department of Fisheries.

Year.	Nova Scotia.	New Brunswick.	Prince Edward Island.	()uebec.	Ontario.	British Columbia.	Manitoba and North-west Territories.	Total for Canada.
	 	\$F	%	99	GG	60	G	00
	4.019.425	1.131.433	No data	1.161.551	264.982	No data	No data	6,577,391
	5,101,030	1,185,033	op	1,093,612	193,524	do	do	7,573,190
	6,016,835	1,965,459	op	1,320,189	267,633	op 1	op	9,570,110
	6,577,087	2,285,662	207,595	1,391,564	293,091	op -	op	11,754,95
	6,652,302	2,685,794	288,863	1,608,660	440,207	do	, do	10,001,00
	0,073,301	1,952,950	730,921	9,090,788	493,134	104 697	. Op	11,117,000
1877	5,027,050	9, 133, 937	763,036	9,560,147	438,993	583.433	90	12,005,95
	6.131.600	2,305,790	840,344	2,664,055	348,122	925,767	op	13,295,678
	5,752,937	2,554,722	1.402,301	2,820,395	367,133	631,766	op op	13,529,254
	6,291,061	2,744,477	1,675,089	2,631,556	444,491	713,335	do	14,499,979
	6.214,782	2,930,904	1,955,290	2,751,962	509,903	1,454,321	do	15,817,16
	7,131,418	3,192,339	1,855,687	1,976,516	825,457	1,842,675	do	16,824,08
	7,689,374	3,185,674	1,272,468	2,138,997	1,027,033	1,644,646	op	16,958,19
	8,763,779	3,730,454	1,085,619	1,694,561	1,133,724	1,358,267	op ·	17,766,40
	8,283,922	4,005,431	1,293,430	1,719,460	1,342,692	1,078,038	do	17,722,97
	8,415,362	4,180,227	1,141,991	1,741,382	1,435,998	1,577,348	186,980	18,679,28
	8,379,782	3,559,507	1,037,426	1,773,567	1,531,850	1,974,887	129,084	18,386,16
	7,817,030	2,941,863	876,862	1,860,012	1,839,869	1,902,195	180,677	17,418,51
	6,346,722	3,067,039	866,430	1,876,194	1,963,123	3,348,067	167,679	17,655,256
	6,636,444	2,699,055	1,041,109	1,615,119	2,049,637	3,481,432	232,104	17,714,90
	7,011,300	3,571,050	1,238,733	2,008,678	1,806,389	3,008,755	332,969	38,511,818
268	6,340,724	3,203,922	1,179,856	2,236,732	2,042,198	2,849,483	1,088,254	18,911,171
	6,407,279	3,746,121	1,133,368	2,218,905	1,694,930	4,443,963	1,042,093	20,686,6
	6,547,387	4,351,526	1,119,738	2,303,386	1,650,968	3,950,478	787,087	21,719,57
	6,213,131	4,403,158	976,836	1,867,920	1,584,473	4,401,354	752,466	20,199,38
	6,070,895	4,799,433	976,126	2,025,754	1,605,674	4,183,999	745,543	20,407,425
E	Tivo 010 EET	000 040 000	02 040 001	EO 222	07 000 00m	4K 4Ke 00G	27 0 11 0 10	418 7 10 088

CAPITAL AND MEN ENGAGED IN THE FISHERIES OF CANADA.

The accompanying statements show that last year over 75,000 men were engaged in the Canadian fishing industry, using nets and other fishing gear and fixtures aggregating a capital of over nine and three quarters million dollars. Besides the 1,200 fishing schooners and tugs valued at two million dollars manned by 9,735 sailors, 65,500 fishermen, using 35,400 boats, valued at over one million dollars, toiled the sea for a livelihood, using altogether 6,344,450 fathoms of nets.

The lobster plant for 1896 amounted to \$1,114,920. This represents the 665 canning establishments dispersed on the littoral of the Maritime Provinces, and 1,100,000 traps required to keep them going. Over 14,000 persons find employment in this branch of industry alone.

COMPARATIVE TABLE showing Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries of Canada, together with the Value of Fishing Materials employed, from 1879 to 1896.

YEAR.		Vessels.			OATS.	Value of Nets and	Value of other	Total of Capital
I DELL.	No.	Tonnage.	Value.	No.	Value.	Seines.	Fishing Material.	Invested.
						\$	\$	\$
1879	1,183	43,873	1,714,917	25,616	854,289	988,698	456,617	4,014,521
1880	1,181	45,323	1,814,688	25,266	716,352	985,978	419,564	3,936,582
1881	1,120	48,389	1,765,870	26,108	696,710	970,617	679,852	4,113,049
1882	1,140	42,845	1,749,717	26,477	833,137	1,351,193	823,938	4,757,985
1883	1,198	48,106	2,023,045	25,825	783,186	1,243,366	1,070,930	5,120,527
1884	1,182	42,747	1,866,711	24,287	741,727	1,191,579	1,224,646	5,014,665
1885	1,177	48,728	2,021,633	28,472	852,257	1,219,284	2,604,285	6,697,459
1886	1,133	44,605	1,890,411	28,187	850,545	1,263,152	2,720,187	6,814,295
1887	1,168	44,845	1,989,840	28,092	875,316	1,499,328	2,384,356	6,748,840
1888	1,137	33,247	2,017,558	27,384	859,953	1,594,992	2,390,502	6,863,008
1889	1,100	44,936	2,064,918	29,555	965,010	1,591,085	2,149,138	6,770,151
1890	1,069	43,084	2,152,790	29,803	924,346	1,695,358	2,600,147	7,372,641
1891	1,027	39,377	2,125,355	30,438	1,007,815	1,644,892	2,598,124	7,376,186
1892	988	37,205	2,112,875	30,513	1,041,972	1,475,043	3,017,945	7,647,835
1893	1,104	40,096	2,246,373	31,508	955,109	1,637,707	3,174,404	8,681,557
1894	1,178	41,768	2,409,029	34,102	1,009,189	1,921,352	4,099,546	9,439,116
1895	1,221	37,829	2,318,290	34,268	1,014,057	1,713,190	4,208,311	9,253,848
1896	1,217	42,447	2,041,130	35,398	1,110,920	2,146,934	4,527,267	9,826,251

STATEMENT of the Lobster Industry in Canada for the Year 1896.

	Total Value.	T.	1,322,905	436,303	284,019	162,535	2,205,762
Сатсн.	Value.	X.	572,044	106,490		300	678,834
	Fresh or Alive.	Tons.	7,627	1,357	:	7	8,988
	Value.	⊕	750,861	329,813	284,019	162,235	1,526,928
	Number of Cans.	17.	5,363,300	9,355,807	2,028,709	1,158,822	10,906,638 1,526,928
Plant.	Total Value, Plant.	Х	505,230	280,305	226,555	102,831	1,114,921
	Value. T	¥.	313,145	167,805	117,432	63,126	661,508
	Number of Traps.		587,612	205,621	219,105	94,551	453,413 1,106,889
	Value.	F.	192,085	112,500	109,123	39,705	453,413
	Number of Canneries.		506	198	17.1	82	665
Number				4,208	3,748	2,380	61,41
The state of the s				New Brunswick	Prince Edward Island	Quebec	Totals.

COMPARATIVE TABLE showing the number of men employed in the Fishing Industry since 1879.

Years.	Number of Men in Vessels.	Number of Men in Boats.	Total Number of Fishermen
•			
1879	8,818	52,577	61,395
1880	8,757	51,900	60,657
1881	8,359	50,679	59,056
1882	8,498	52,785	61,283
1883	9,966	52,259	62,225
1884	9,968	51,854	61,822
1885	9,539	53,282	62,821
1886	8,927	53,073	62,000
1887	8,911	55,247	64,158
1888	9,574	53,109	62,683
889	9,621	55,382	65,003
.890	8,726	.55,000	63,726
891	8,666	56,909	65,575
892	8,330	55,348	63,678
.893	8,899	58,854	67,753
894	9,525	61,194	70,719
895	9,804	61,530	71,334
896	9,735	65,502	75,237

RECAPITULATION

Snowing the Number and Value of Fishing Vessels, Boats, Nets and other Fishing Material, as well as the Number of Fishermen in Canada, 1896.

Torar	VALUE.	%	3,069,753	1,878,459	371,991	799,737	838,532	2,614,578	253,201			9,826,251
Approximate Value of Value of Freezers, Fish and Smokehouses and other fixtures not itemized.		90	512,036	458,109	31,345	212,821	127,255	1,297,553	101,170			2,740,289 9,826,251
Value of Lobster Plant.		99	505,230	280,305	226,555	102,831			***************************************			1,114,921
Value of Pound-nets,	Value of Pound-nets, Trap-nets, Trawls, Weirs, &c.		199,024	223,007	0,920	102,236	137,870					672,057
TS AND	Value.	60	659,768	541,991	36,570	161,000	236,665	480,200	30,740			2,146,934
GILL-NETS AND SEINES,	Fathoms.		2,516,791	772,230	93,059	320,541	1,745,435	628,665	267,735			35,398 1,110,920 6,344,456 2,146,934
Boxrs.	Value.	¥;	315,020	243,887	55,551	186,399	104,842	190,430	14,791			1,110,920
	Number		14,549	5,562	2,069	6,961	1,370	3,981	906			35,398
Vessels,	Value.	V)	878,675	131,160	12,050	34,450	231,900	646,395	106,500			2,041,130
	Ton- nage.		25,465	3,758	493	1,600	2,673	6,802	1,655			42,447
	Number		593	274	17	40	98*	193	*14			1,217
FISHERWEN IN	Boats.		19,174	10,235	4,668	13,173	2,865	13,854	1,533	The second secon	65,502	75,237
	Vessels.		5,801	1,035	98	242	433	+2,071	29		9,735	
PROVINCE.			Nova Scotia	New Brunswick	Prince Edward Island .	Quebec	Ontario	British Columbia	Manitoba and NW.T.			Total

*Mostly all tugs. †Including sealing fleet and crews.

FISHERIES PROTECTION SERVICE.

A full report on the operations of the Fisheries Protection Service during the season of 1897, by Commander O. G. V. Spain, will be found in Appendix No. 12 of this publication. It is pleasing to note that this service has been again carried on in a very satisfactory manner.

with the exception of the D.S.S. "La Canadienne" and "Stanley" which were not put in commission, the fleet of cruisers was about the same as usual, consisting of the following steamers:—The "Acadia," "Constance," "Curlew," "Aberdeen," "Petrel," "Dolphin" and the scheoners "Osprey" and "Kingfisher." The "Petrel" and "Dolphin" cruised on the Ontario great lakes, and all the others on the Atlantic coast. The D.G.S. "Quadra" was partly employed on the Pacific coast for the protection of fisheries. Capt. Walbran's report in this respect will be found at page 288. The reports of other Captains commanding cruisers are also published as annex A to appendix 12.

The number of United States fishing vessels taking advantage of the modus vivendi licenses was nearly 50 per cent less than during the season of 1896.

Only one seizure of a foreign fishing vessel was made during the last season for violation of the customs laws. This vessel (the "Carrie E. Philips") was subsequently released on payment of a deposit.

Toward the end of the season Commander Spain paid particular attention to the observance of the lobster close-season, and many thousand traps and gear found set illegally were seized and destroyed.

The total amount expended by this service for the last fiscal year is given at \$99,357.

FISHERIES INTELLIGENCE BUREAU.

A full report on this branch of the service by Mr. W. M. Huchins, clerk in charge at Halifax, forms annex C to the Fsheries Protection Service report. In view of the absence of official figures for the yield of fish for 1897, this report on the principal kinds of fish at the most important fishing districts will be found of interest.

FISH CULTURE.

The fish-breeding report for the year 1897 by Professor E. E. Prince, Commissioner of Fisheries, forms Appendix No. 11 of this publication. It also includes a complete description of all proceedings such as the capturing of parent fish, collection of eggs, etc., at the different hatcheries by the respective officers in charge.

There are now fifteen government hatcheries in the Dominion, but the establishments at Dunk River, P. E. Island, and at Selkirk, Manitoba, were not in operation last season.

About two hundred million fry were hatched and successfully distributed from the thirteen establishments in operation during 1897, some ninety millions of which were young lobsters.

During the summer an attempt was made to artificially hatch out brook-trout at the Miramichi government establishment, with the co-operation of the Provincial authorities.

The total expenditure for this branch of the service aggregated \$27,330, being over \$10,000 less than the previous year.

OYSTER CULTURE.

A full report of the last season's work of the culture of oysters by the expert, E. Kemp, follows as an Annex to the fish-breeding report, page 268.

Mr. Kemp began operations at Shediac where the beds were found free from eel-grass and the oysters growing in a satisfactory manner. Bay du Vin was next examined and barring certain depredations was also found satisfactory. The expert afterwards devoted his time examining areas most suitable for oyster culture in Cape Breton, Nova Scotia and Prince Edward Island. Mr. Kemp also visited and reported favourably on a certain area of nearly 500 acres in the County of Bonaventure, near Carleton, where a Quebec company has been organized to attempt the culture of oysters on a large scale.

The total water area now under license for a term of years to different parties for private cultivation is given at 1,147 acres.

BEHRING SEA QUESTION.

This question has occupied a particularly prominent position during the year just closed, both as regards the diplomatic correspondence between the different governments interested and the meetings of conferences and commissions.

The conference of fur-seal experts met and concluded their work at Washington during the fall, and diplomatic negotiations have since proceeded looking to some satisfactory settlement of the question which has so long engaged the attention of the three governments concerned.

The argument by the respective counsel before the Behring Sea Claims Commission was completed at Halifax in October and the award of the commissioners was reached at a session in Boston during December.

An article by Mr. R. N. Venning, which forms Appendix No. 13 to this report, treats of this question, embracing a fairly comprehensive reference to the principal features of the case which developed within the year, including statistics, the season's catch, proposals for changes in the regulations, requests for supplementary arrangements for enforcing the present regulations, scientific and expert inquiry into seal life, and other features of interest incidental to the question.

SPECIAL REPORTS.

This report is immediately followed by three special articles of a scientific character by Professor Edward E. Prince, Commissioner of Fisheries for Canada, which will be found very interesting to all parties interested in fish life.

- 1. The Fisheries of Canada.
- 2. On the treatment and planting of salmonoid fry.
- 3. The propagation of black bass.

CONCLUSION.

Fishing Season of 1897.

During the last five years the value of the Canadian Fisheries has but slightly varied above twenty million dollars. By a glance at the preliminary reports received from our different inspectors and officers, it is feared that the yield of the sea for the last season will not equal that of 1896.

In the Maritime Provinces the *lobster* industry, employing about 14,000 hands, using over 1,000,000 traps to supply 665 canneries, in all representing a capital of over \$1,000,000, will show a considerable decline in quantity, fortunately prices were higher than usual. *Mackerel* fishing seems to be steadily failing. Some of those caught were of a large size and commanded high prices in foreign markets. *Cod* may be as plentiful as ever but prices were lower, and the demand in foreign markets somewhat limited.

The salmon canning industry of British Columbia has exceeded by far any previous output. The total capture of that game fish in the above named province is estimated at 49,000,000 lbs. for the season of 1897.

CAPE BRETON ISLAND.

Inspector Bertram says that notwithstanding the increased number of lobster canneries and a higher price paid to the fishermen, the production is much inferior to the previous one. This is ascribed to stormy weather as well as to the scarcity of fish. The extension of the fishing time was not generally taken advantage of, The prices of dry cod being very low, this fishery was not prosecuted as vigorously as in former years. Respecting this branch of industry the inspector says: "There is no doubt that one of the causes of the low prices of cod is due to the immense quantity of the French article which finds its way into the markets formerly held by the product of our own fishermen. The French fishermen in Newfoundland and St. Pierre receive a bounty of \$2 per quintal for the fish they catch. This bounty has stimulated the industry to such an extent that at least sixty per cent more are now caught by French fishermen than before they received a bounty from their government. Canadian and Newfoundland fishermen complain bitterly of the advantage the French fishermen have over them and the competition they have to suffer from the product of foreigners even in their own country." The spring and fall run of herring were as good as formerly but the summer run of fat herring was a complete failure. The cause of this scarcity is unexplained, and it is quite a loss to the Island as these fat herring were easily taken and always commanded a good price. The mackerel fishing will be one of the poorest on record. Prices ruled high. Salmon fishing both angling and netting were satisfactory, especially the latter. The Margaree River is now getting to be quite a sportsmen's resort.

NOVA SCOTIA.

Inspector Hockin says that the fisheries of his district during 1897 will be as follows: codfish, haddock, hake and pollock, about 90 per cent of last year's catch; herring, an increase of 60 per cent; mackerel and alewives a decrease of 50 per cent,

while lobsters and salmon fell about 20 per cent. Of the minor branch of the fishing industry there will not be any material difference from previous years.

Inspector Ford, of the western counties, reports that while the bank fishermen have secured an average yield, the shore fishermen have fared poorly. Prices were discouragingly low. Herring will yield as much, perhaps more than during the previous year. Mackerel seem to have almost deserted that part of the coast, and their capture was a complete failure. Lobsters are getting scarce; it now requires more men with an increased plant to secure the same or even a smaller production. Mr. Ford says their bays and harbours are overfished and the natural propagation of the species is not sufficient to cope with the annual drain of mature fish.

NEW BRUNSWICK.

Inspector Pratt, of the Bay of Fundy coast states that although the strikes of the employees of the Maine Sardine Canneries somewhat interfered with the weir catch of herring, still the general results will prove satisfactory. Herring were later than usual in appearing on the Grand Manan grounds, and the catch of these large fish will be much below the average. Lobsters will produce about the same quantity as in 1896, with a slight advance in value. The cod family or line fish will show a considerable diminution attributed to scarcity of fish.

Inspector Chapman, for the eastern counties of the above named province remarks that although the fisheries of his district have more than doubled since 1890, and will probably aggregate over \$3,000,000, he has to report a falling off for the first time since he has taken charge of the division. "This deficiency," says this officer, "is principally in salmon, mackerel and smelts with the usual yearly shrinkage in the lobster pack. Codfish were plentiful, but stormy weather and low prices may also have slightly reduced the catch of this staple fish below the large capture of last year. Smelts were not less abundant than in 1896, but the weather was not so favourable as during the previous winter. Salmon, owing, it is believed, to the late cold spring, were very late ascending the rivers, but the pools are reported well filled this fall. Mackerel were almost a failure on all parts of their coast."

Inspector Miles, of the western and inland counties, including St. John, expects a better yield of the fisheries generally, as prices of fish were higher and more men went in the business. While there will be a falling eff in the catch of shad, alewives and sardines, there will be marked improvement in the yield of salmon, lobsters and the cod family. Herring about an average catch.

PRINCE EDWARD ISLAND.

Mr. J. A. Matheson, who has succeeded Mr. Perry as inspector of fisheries for Prince Edward Island, states that the sea product of 1897 will be below that of previous years. The lobster pack is short, but owing to higher prices, the aggregate value will not be considerably lessened. Stormy weather and scarcity of bait have somewhat interfered with the cod and hake fishery and reduced their catch. Here also, mackerel is reported as a failure, the worse in fifty years. "The oyster fishery," adds this officer, "has been energetically pursued, stimulated no doubt by the present exceptionally high prices. Hitherto the supply has been obtained from Prince

County chiefly from Richmond Bay, but the demand has caused the beds in Queen's County, formerly little used, to be operated. As some interest seem arising in oyster culture, a large future supply may be looked for." Extensive preparations are made for smelt fishing in December. The trout streams are in good condition, affording ample sport to tourists and visitors.

PROVINCE OF QUEBEC.

Dr. Lavoie, fishery officer, in charge of the Gulf St. Lawrence Division states, that on the whole the fishery operations were satisfactory, and the north shore fishermen need not dread the long winter season. Cod struck abundantly everywhere except at Magdalen Islands, where the yield proved poor. It is true that cod fishing was somewhat neglected for the lobster fishing in the vicinity of the islands. Cod was caught as far up the St. Lawrence as Cape Chatte and at Carleton in Bay des Chaleurs where it had not been noticed for years. The price of this staple fish, however, ruled very low. Herring seemed plentiful and the catch was only limited by a scarcity of curing material. Few mackerel were caught. The salmon yield will be far below that of last year, which was an exceptional season. The shortage in the lobster pack is somewhat compensated by the remunerative prices obtained. Traps were seriously damaged by storms in June. The number of canneries is still increasing, at the Magdalen Islands alone there are now 62 such establishments.

ONTARIO.

In Ontario the catch will be about an average one. Fishing in Lake Erie specially is reported very good. The proximity and easy access of good markets renders the fisheries of this province valuable to the majority of parties interested in the fresh water fishing industry.

MANITOBA.

Inspector R. L. Tupper says that the last fishing season has been a disappointing one. In anticipation of a poor market, although the commercial fishing firms had limited the output in their freezers, still they were obliged to give away many tons of fish in the spring. The depression in the United States markets and the open winter on the great lakes and eastern rivers, allowing fishing when these waters are generally frozen up, increased the production and greatly reduced the prices. Sturgeon fishing was vigorously prosecuted. Both its flesh and its caviare are highly appreciated and bring fair remuneration. The demand for pickerel is increasing and they now bring almost as much as whitefish on the market. In Lake Winnipeg a small improvement in the catch of all kinds of fish, excepting whitefish, may be expected. The southern part of Lake Manitoba has been extensively fished during the summer, and unless closely guarded, will become depleted.

Now that railway communications extend to Lake Winnipegoosis, there will be a great rush to it. Many fishermen formerly from Lake of the Woods are now seeking licenses thereto. Although the season was unusually stormy, it has passed without any loss of life or serious accidents.

The people are delighted to see the hatchery again in operation as they believe in its efficiency.

NORTH-WEST TERRITORIES.

Inspector E. W. Miller, who has succeeded Mr. Davidson, briefly reports as follows: "The number of licenses applied for and granted during the season of 1897 will show a diminution from the preceding year, but the total catch of fish is likely to be larger, owing to the greater scarcity of game in the northern districts. The lakes that have been restocked with fry have given very favourable results therefrom this year, and increasing demands are likely to be made on the department in this respect. The Indians are beginning to better appreciate the necessity of the close seasons, but the destitution of the half-breds in some localities renders it difficult to strictly enforce the regulations. Fishing for export is confined to the Saskatchewan River and has not proved very profitable. Irrigation ditches in Southern Alberta are having a bad effect on its trout streams and much care will be required in harmonizing the conflicting interests."

BRITISH COLUMBIA.

Inspector John McNab states that the run of sock-eye salmon in the Fraser River was unprecedently large, and over 40 million cans were packed on that stream alone. In fact, salmon were so plentiful that the insufficiency of labour and material alone prevented a larger output. Of the 65 canning establishments in operation, 44 were on the Fraser River and 21 on the coast. The packing on the northern coast and rivers will be below the average. A new venture, the shipping of fresh salmon in cold storage, direct to England by steamships, was attempted as an experiment, so was a shipment of dry salted salmon to Japan. Should these ventures prove satisfactory, they no doubt will soon assume large proportions. Altogether, the yield of salmon in British Columbia is estimated at 49,000,000 nounds for the season of 1897. Sturgeon fishing is fast becoming an important and valuable industry. Those of the Fraser River are of large size and of superior quality. They can be readily caught with nets, but trawl lines are still extensively used, to the great injury of the fishery as well as to the detriment of honest fishermen. The halibut industry is also making rapid strides and its catch will aggregate nearly one million pounds.

Only 41 schooners were engaged in the sealing industry this year, as against 64 in 1896. The total number of skins is given at 30,410, as against 55,667 last year.

Besides salmon, halibut and sturgeon, the waters of this western province teem with a great variety of valuable food fishes, which are yearly assuming more commercial importance.

REMARKS.

It is generally recognized that fishery statistics, while of the highest value, are of necessity incomplete; the difficulties attending their compilation being very great. Every effort is made through the fishery inspectors and officers to procure complete returns for official use; but the annual reports of the department for obvious reasons understate, no doubt, the total catches of the Canadian fisheries rather than overstate them, and "in justice to the fishery officers through whom

the detailed returns of each season's fishing were procured (to quote from a former report of the department) it should be observed that, considering the limited number of persons employed at nominal salaries and (with few exceptions) at a very moderate expense for disbursements, whose districts extend over such a vast extent of coast, more or less inaccessible at all times, the general accuracy of the materials procured under directions from this department is certainly creditable to their industry and intelligence."

* It remains true, as was affirmed officially three decades ago, that there is no country in the world possessing finer fisheries than British North America. As a national possession they are inestimable; and as a field for industry and enterprise they are inexhaustible. Besides their general importance to the country as a source of maritime wealth and commerce they also possess a special value to the inhabitants. The great variety and superior quality of the fish products of the sea and inland waters of these colonies afford a nutritious and economic food admirably adapted to the domestic wants of their mixed and laborious population. They are also in other respect specially valuable to such of our people as are engaged in maritime pursuits, either as a distinct industry or combined with agriculture. The principal localities in which fishing is carried on do not usually present conditions favourable to husbandry. They are limited in extent and fertility and are subject to certain climatic disadvantages. The prolific nature of the adjacent waters and the convenience of their undisturbed use, are a necessary compensation for defects of soil and climate. On such ground alone the sea and inland fisheries to which British subjects have claims on this continent, are of peculiar value, and as regards particular sections of the country, the benefit of sole privilege of fishing are practically speaking an almost vital necessity.

Whether, therefore, we regard them as being abundant and important for domestic subsistence, or in their much larger import as a valuable resource, capable of ever increasing development and limitless reproduction, employing an amount of capital reckoned by many millions of dollars, and engaging the labour of hundreds of thousands of persons,—encouraging maritime pursuits, fostering the commercial marine, promoting foreign trade, keeping always and productively in active training an independent spirited class of sea-faring men,—the teeming waters around the coast of the British North American possessions, and those which form their great lakes and magnificent rivers, present to our view a national property richer and more perpetual than any mere monied estimation could express.

It is in the highest degree gratifying to find that British subjects are becoming every year more and more alive to their vast importance, and that Canadians especially are now more than ever anxious to preserve them as the finest material portion of our colonial heritage.

The fact of foreign nations having always clung with such tenacity to every right and common liberty which they have been enabled to secure in these fisheries,

and the eagerness which foreigners manifest to establish themselves in the actual use of such extensive and lucrative privileges, constitute the best extrinsic evidence of the wide spreading influence of their possession and the strongest testimony to their industrial and commercial worth.

I have the honour to be, sir,
Your obedient servant,

F. GOURDEAU,

Deputy Minister of Marine and Fisheries.

SPECIAL REPORTS

ON

I.—The Fisheries of Canada.

II.-On the Treatment and Planting of Salmonoid Fry.

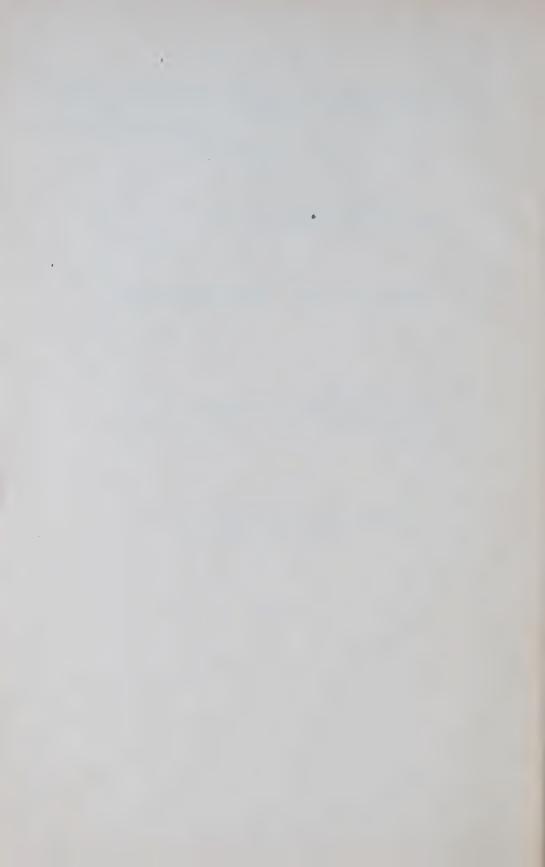
III.—The Propagation of Black Bass.

ВЧ

PROFESSOR E, E. PRINCE, B,A., F.L.S.

Commissioner of Fisheries for Canada,

1897



THE FISHERIES OF CANADA.

BY PROFESSOR EDWARD E. PRINCE, DOMINION COMMISSIONER OF FISHERIES, OTTAWA.

Last year I had the honour of being invited by the Royal Society of Canada to deliver the annual evening address at their May meeting. It is not customary to put in permanent form a popular address of that nature; but when asked this year to contribute a short article on fisheries to the "Handbook of Canada," prepared for the British Association for the Advancement of Science, which held its sixty-sixth meeting in Toronto, I summarized my notes for the purpose, in the form of a résumé.

The present account is based upon the Royal Society address and the résumé, referred to. The time appears opportune for publishing this sketch, as there is no work available, which attempts an adequate review of Canada's fishery resources, fishery administration, &c. There are, it is true, accounts by Joneas, Lemoine and others, and works upon provincial fisheries by Perley, Knight and lesser known writers, but the great fisheries of the west have received very inadequate treatment as compared with those of the east, and a summarized sketch of the whole subject is now essayed, it is believed, for the first time.

That the fisheries of Canada are the most vast in extent and the most varied in their products, can hardly be questioned. The Dominion's waters on the Pacific and Atlantic shores teem with fish of the greatest economic value, while the system of fresh water lakes, really inland seas, which stretch in a linear direction for over a thousand miles; the productive lakelets, countless in number, and the noble rivers which flow through her far-reaching territory, provide the amplest field for gigan-

tic fishing industries.

The annual value of the inland and sea fisheries has been variously estimated; but it cannot be much below \$30,000,000. Official returns, it is generally admitted, underestimate rather than overestimate their total value, as vast quantities of fish are used for food which it is hardly possible to accurately estimate, and enormous catches are made in remote regions of Canada of which no returns are available. Fishermen generally exhibit an unwillingness to state with any precision the amount and value of their takes each season; and shipments of fish are frequently taken from Canadian fishermen by United States tugs, especially upon the great lakes, which are not entered upon Dominion records.

The growth of the fisheries has been phenomenal. In 1850 their value did not exceed \$150,000; in 1852 the value was doubled, and in 1859 it rose to \$1,407,000, while ten years later (1869) it amounted to \$4,376,526. By 1872 the value again more than doubled, and reached \$9,570,116. In 1877 it was \$12,005,944; in 1887, \$18,386,103, and official estimates this year put it at \$20,407,424, which do not probably adequately account for the value of fish consumed by the Indians, the Eskimo, and settlers in remote districts of the Dominion, or the large quantities shipped

from Hudson Bay, Hudson Strait and other distant waters.

An army of fishermen, 75,237 in number, possessing boats, nets and gear valued at about \$10,000,000 engage in these fisheries. Many profitable industries are largely connected with and dependent upon the fisheries, such as boat building, net and twine manufactures, the making of cans (for salmon, &c.) some of these industries being extensive. The following summary, suggested by the system of territorial regions which Sir William Dawson laid down in his work on the "Ice Age," recognizes seven great divisions, each characterized by fisheries more or less distinctive.

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REGIONAL DIVISIONS.

(1.) The Atlantic division, from the Bay of Fundy to the coast of Labrador, embracing deep-sea and inshore fisheries, cod, mackerel, haddock, halibut, herring, hake, lobsters, oyster, seal and white whale (Beluga) fisheries. Annual value: \$10,000,000.

(2.) The Estuarine and inland waters of the Maritime Provinces (Nova Scotia, New Brunswick, Prince Edward Island and Quebec), including fisheries for salmon, shad, gaspereaux (alewife), striped bass, smelt, and in the lakes, ouananiche or fresh water salmon, lake trout or lunge, maskinonge, &c., of the annual value of \$2,500,000.

(3.) The great lakes and tributary waters: Lake whitefish, great lake trout, lesser whitefish (called erroneously lake herring), sturgeon, pike-perch, (doré or pickerel), black bass, brook-trout, maskinonge, pike and numerous carps, suckers and catfish. Value: \$2,000,000.

(4.) Great North-west lakes, including Manitoba and northern waters, yielding lake whitefish, sturgeon, pike-perch, tullibee (a peculiar lesser whitefish), pike and

gold-eye (a true fresh-water herring).

Value, including newly developed "caviare" and "sturgeon sounds" industries,

\$1,000,000.

(5.) Pacific interior, or Rocky Mountain plateau, comprising little developed fisheries, land-locked Pacific salmon, lake whitefish, lake trout, river trout and numerous *cyprinoids*, none of which are propably identical with eastern species.

Annual value small and unrecorded.

(6.) Pacific coast fisheries which are almost unworked, if the estuarine salmon fisheries be excepted. At least seven different species of Pacific salmon occur belonging to the genus Oncorhynchus, excluding Salmo gairdneri, the steelhead. Halibut, skill (black cod), oolachan (candle fish), anchovy, herring, smelt, and a great variety of other marketable fishes abound, but are not to any adequate extent utilized. Shark, dog-fish and whale fisheries exist, and there are limited oyster fisheries. Exclusive of the fur seal, which is an oceanic industry, less than \$1,000,

000 in value, the coast fisheries may be given at \$4,000.000.

(7.) Hudson's Bay and Peri-Arctic area (Ungava Bay to the Mackenzie River), Whale, walrus, sea-trout, the inconnu, resembling a huge river whitefish, pike, suckers, sturgeon, and possibly salmon and cod, occur in these vast waters, of which Hudson Bay alone exceeds the Mediterranean Sea in extent. The richest whaling grounds in the world are in this little-known part of Canada, off the mouth of Mackenzie River and as far east as Cape Chudleigh, in Hudson Strait, where the Baleen whale and walrus were until recently numerous. "The tidal channels of Canada's Arctic archipelago are destined," it has been truly said "to be the last home of the leviathans, which within the memory of living men, have been driven from Newfoundland latitudes to the places where their survivors have now sought retreat."

COAST LINE, LAKE AREAS, &C.

It may be pointed out that the waters grouped in this seven-fold manner include on the Atlantic, a Canadian coast line at least 10,000 miles long, and on the Pacific not less than 8,000 miles, while the portions of the great lakes (Superior, Huron, Erie and Ontario), which lie within the British boundary line, embrace a fishing area computed at 72,700 square miles, and containing one-half the fresh water upon the surface of the globe. To these extensive waters must be added giant streams like the St. Lawrence, the largest river on the North American continent, having a drainage area of 367,000 square miles, the Mackenzie River (over 2,000 miles long), the Saskatchewan (2,000 miles long), the Fraser and Red Rivers, each 600 miles long, and others, like the rivers Peace, Nelson, Albany, Great Whale, Skeena, Ottawa, St. John, Restigouche and Miramichi, all of which are great rivers abounding in the choicest species of fish.

There are few rivers or lakes in this vast continental stretch, which do not urnish to the angler fishing with rod and line unapproachable elsewhere. The

salmon rivers of the maritime provinces have no equal, and the inland waters inhabited in the east mainly by speckled trout; and further west, especially in Ontario, by black bass and maskinongé, afford the highest kind of sport. The large trout of the Nepigon River and Lake Nepigon in western Ontario have a reputation hardly inferior to the ouananiche or fresh-water salmon of Lake St. John, in the

province of Quebec.

The principal salmon streams of New Brunswick and Quebec, such as the famous Restigouche, the peerless Miramichi, the St. John and its tributaries, the Nipissiquit, the Cascapedia, the Saguenay, &c., are for the most part leased by clubs or private parties, many of them from the United States, and their commodious club-houses occur at picturesque points along the banks. Such is the value placed upon angling in some of these waters that the Cascapedia, which may be cited as an example, was leased not long ago by the Quebec Provincial Government at no less a sum than \$6,125 per annum. While angling for trout and other fish, excepting salmon, has in the past been freely permitted in the various provinces, the necessity with the increase of sportsmen and the leasing of lakes and rivers has arisen for effective restrictions. In Ontario, for example, no one except resident Canadians can angle for bass, maskinonge, trout, &c., without a permit which is issued at a moderate fee. The Commissioner of Crown Lands, Toronto, has power to issue free permits for one month for waters adjacent to Crown lands, and visitors who are domiciled for a time in Canada may have the privilege of fishing without permit or license. In waters so numerous and extensive as those of Canada the angler has no difficulty in finding scope for his penchant, and such resorts as the Thousand Islands attract myriads of sportsmen every season. In each province indeed there are localities which abound in game fish where the angler can freely

In the tidal portions of rivers licenses and leases are granted by the Department of Marine and Fisheries for commercial fishing, and in the estuary of such rivers as the Restigouche and Miramichi, most extensive salmon netting for the market is carried on. In the harbour of St. John the net fishings are under the control of the city of St. John, but elsewhere the Dominion Government possesses the leasing or licensing power. As already stated, the provincial governments have the right to issue leases for non-tidal portions in the case of ungranted frontages; but this power is vested in the riparian proprietors in the case of granted lands. In Nova Scotia and Ontario the waters, as a rule, are not leased, and the riparian owner's rights have not been very generally enforced.

It is important to note that the Atlantic inshore fisheries of Canada, embracing an area of more than 15,000 square miles, are prosecuted not by Canadian fishermen alone, but by those of the United States, Newfoundland and France under interrational treaties. The great lakes also are, for the most part, divided between the United States and Canada, and the recorded Canadian catches represent therefore

only a proportion of the total yield of those waters.

In Hudson Bay and the northern seas, as well as in the Pacific inshore waters of British Columbia, foreign fishermen have very largely encroached on the fishery resources of the Dominion. There are, it may be added, extensive waters as yet untried and undeveloped, and valuable resources which in the near future will add

to the annual value of the Canadian fisheries.

The importance of the fishing industries did not in the past go unrecognized. A government department charged with the administration of fishery, as well as shipping matters, was created at Confederation (1867), prior to which the fisheries had been regulated by a branch organized in 1859, of the Crown Lands Department of Upper Canada. Such control as the provincial governments still exercise in Ontario, Quebec, and the other provinces, is carried out by the Commissioners of Crown Lands in the several provinces. Since Confederation the vast fisheries of the Dominion have been under the direct supervision of a Cabinet Minister (the Minister of Marine and Fisheries) at Ottawa. A Deputy Minister acts immediately under the Minister, and has the administration of the department in his hands, while a Commissioner of Fisheries, who is also General Inspector for the Dominion, has important

advisory and executive functions. In addition to the usual inside staff of officers and clerks, there is a body of outside officers who enforce at a yearly cost of about \$120,000, the close seasons, and the fishery license system, collect statistics, &c.

The staff includes 12 inspectors of fisheries (who receive \$700 to \$1,500 per annum): several hundred overseers, vested with magisterial powers for the purposes of the Fisheries Act, (receiving \$100 to \$900): and a still larger body of temporary fishery guardians, whose pay ranges from \$1.50 to \$2 per day. A fleet of armed cruisers, costing about \$100,000 annually, patrol the coastal and great inland waters, exercising surveillance over foreign as well as Canadian fishing operations in Dominion waters. Finally, a bounty system is carried out for encouraging the pursuit of the deep-sca fisheries in the Atlantic, the provision for which was secured by the Halifax Award, (November 23, 1877), whereby a sum of \$5,500,000 was paid by the United States in consideration of the fishery concessions in Canadian inshore waters along the Atlantic coast granted to the United States fishermen. A sum of \$160,000, voted annually by Parliament is by this means available, and is distributed amongst the deep-sea fishermen in the Maritime Provinces. The work of the Fisheries Department is thus extremely varied and important. The late Professor Brown Goode, United States Commissioner of Fisheries, at a fisheries conference in London, 1883, said: -"It seemed to him that the Canadian Department of Marine and Fish-"eries was one of the most valuable organizations in the world, and that the system " of gathering statistics was one which other countries ought to study with a great "deal of care. In the United States they had nothing of the kind." The collection and publication of statistics is indeed an invaluable branch of the department's work.

The methods of protection and restoration adopted by the Department of

Marine and Fisheries are:-

(1) Close seasons preventing the capture of spawning fish

(2) Fishing licenses specifying the kind of net, amount, mesh, &c.

(3) Prohibition of obstructions, pollutions, &c.

(4) Protection of spawning grounds, spawn, immature fish, &c.

(5) Artificial fish culture, as a means of supplementing natural reproduction

and introducing fish into new waters.

The last is carried on by means of 14 hatcheries under the supervision of the Commissioner of Fisheries. Salmon (Atlantic and Pacific), great lake trout, and lake whitefish, are hatched and shipped gratis, if the waters applied for are suitable. A lobster hatchery at Pictou, N.S., turns out annually one hundred to one hundred and sixty millions of minute larval lobsters. The fish culture operations cost between \$30,000 to \$40,000 per annum, and in 1895, close upon three hundred millions of fry

of the various fishes above named were planted in the several provinces.

A most effective aid to the protection of fish is the prohibition of obstructions caused either by dams or by nets and other fishing apparatus. Main channels of rivers may not be obstructed, and the law requires that nets or fishing apparatus shall leave two thirds of the course of any river or stream clear for the ascent of fish. It is required that fish-passes shall be provided by mill owners or others to enable fish to ascend above dams or barriers and such fish-ways must be kept in efficient condition. In special cases the department is empowered to provide one-half of the cost if the Minister of Marine and Fisheries judges it to be called for. A special provision of the Fisheries Act requires that fish shall not be impeded in their migrations on Sunday, and all nets, fish traps, &c., must therefore be taken out of water, or raised or opened to allow of free passage. In British Columbia for 36 hours each week fishing is prohibited in order to allow of the ascent regularly of a certain proportion of every week's run of salmon.

A sea-fisheries Intelligence Bureau established in 1889, including between fifty and sixty stations under the charge of the Commander of the Protection Fleet, announces daily to the fishermen the movements of fish and the localities for bait.

The following table shows in graduated series the various fish and fish products with the relative value of each for the years 1895 and 1896.

		1898	/•	1896.	
	Kinds of Fish.	Quantity.	Value.	Quantity.	Value.
			\$		s
S E N I H H I I I I I I I I I I I I I I I I	Cod, dried	806, 415 824 28,858,897 4,872,770 3,825 56,460 511,470 11,556,085 10,051,613 35,554 2,068,236 12,345,592 7,374 73,424 47,931 120,758 231,000 59,507 6,926,116 1,040 14,249,399 9,022,157 3,977,350 9,639 909,270 9,984 48,108 188,089 924,000 1,159,870 7,678,411 3,592,975 455,535 1,749,520 15,055 252,432 100,000 47,673 20,022 51,010,580 2,910,510 594,200 80,850 1,938,230 71,359 16,469 166 205 620,613 234,696 105,209	3,630,279 8,240 2,886,479 794,964 42,312 8,962 2,301,616 295,705 203,235 497,756 238,899 1,666,388 543,708 186,890 23,966 422,653 22,050 148,767 692,189 10,400 767,307 451,108 270,901 98,181 54,556 96,880 192,432 377,292 46,200 85,567 303,296 103,325 27,332 155,176 60,220 12,622 6,000 192,292 69,027 29,729 138,525 30,625 206,789 269,282 713,590 18,753 2,000 820 248,246 352,047 52,605	809,608 845 29,872,740 5,439,942 3,186 49,133 490,171 22,289,796 10,980,430 37,765 2,427,972 10,906,638 8,988 94,808 69,867 125,122 1,116,000 88,781 6,950,986 1,037,535 7,333 52,616 86,981 7,3374,000 1,294,595 6,897,810 3,594,790 807,950 2,403,801 24,500 189,159 90,000 48,574 19,791 1,333,550 2,657,465 581,500 104,832 1,894,856 555,677 16,808 23 222 557,140 256,146 127,658	3,610,9; 8,44 2,988,2; 965,0; 36,44 11,8; 2,183,5; 504,8; 221,2; 528,7 199,0 678,8 241,6 34,9 421,2 72,1,1 221,1 690,6 62,2 70,6,6 20,9,1 176,4 28,8 94,4 274,5,9 96,6 48,6 38,8 137,7 28,6 28,8 137,7 59,6 38,8 137,7 59,6 28,4 28,6 224,6 38,6 38,8 38,8 38,8 38,8 38,8 38,8 38
51 52	do do manure	3,615	51,155	3,416	49,

METHODS OF FISHING.

At least a dozen methods of taking fish for the markets merit, on account of their importance, a passing notice. The two chief methods are the pound-nets or fish-traps, and the gill-nets or drift-nets. The latter (gill-nets) hang like a wall in the water, with weights, suspended by lines and buoys or floats, and the fish, in their endeavours to pass through, become meshed by the head and strangled. The former (pound-nets or weirs) consists of a "leader" which obstructs the fish and leads them into a staked inclosure, out of which on account of the arrangement of partitions they do not readily escape. Pounds of wickerwork or brush are used in New Brunswick and Nova Scotia for taking sardines, herring and mackerel. Swing nets and other forms of stake-nets are used for salmon, &c., and instead of impounding they gill the fish, but the hoop-nets (or verveux) are perhaps the most widely used for taking the inferior kinds of fish, catfish, suckers (cyprinoids), perch and the like. The hoop-net has the form of a funnel held open by a series of erect wooden hoops and set in creeks and inshore waters. A special form of trap or weir is used for taking cels.

The seine is a most effective net, but on account of its destructive nature, its use has been discouraged. To the extensive use of seines in former years may be attributed the serious decline in some localities of once prolific fisheries. Scoopnets and bag-nets are used for taking smelts, striped bass and shad. They are successfully used through the ice, in winter, taking immense quantities of fish, carried in with the tide, as the smelt, or when lying torpid like the striped bass, in the winter months.

SALMON AND LOBSTER CANNING.

The vast salmon and lobster canning industries of Canada (salmon on the Pacific coast, and lobsters on the Atlantic coast) are in some respects the most remarkable fishery enterprises in the world. Probably nine to ten millions of salmon are annually used in British Columbia, while every year from eighty to one hundred millions of lobsters are packed in the six or seven hundred lobster factories on the coast of New Brunswick, Prince Edward Island, Quebec and Nova Scotia.

OYSTER FISHERIES.

Finally, the oyster, which differs from the European species in being diceious and in its hundred-fold more prolific character, is distributed over vast areas along the Atlantic coast constituting these areas most extensive and valuable oyster grounds. The annual yield, 50,000 to 70,000 barrels, represents but a tithe of the possible yield, were systematic culture and judicious fishing methods adopted. The Department of Marine and Fisheries has for six years carried on operations, with the aid of a qualified expert, in order to restore and render more prolific certain important oyster beds.

NOTES ON SOME MARKETABLE AND GAME FISH.

It is necessary to add a few succint notes upon certain species of fish of prime importance, commercially, or for sport, which are either peculiar to the waters of this continent or closely allied to European species. The cod, haddock, halibut, mackerel, herring, salmon, pike-perch or doré (also called pickerel), the pike, smelt, eel, and other kinds, call for no special reference, but others like the whitefish,

striped bass, &c., demand a brief notice.

Whitefish. Coregonus clupeiformis (Mitchill). This fresh water salmonoid is allied to the European Gwyniad and Pollan. It varies in weight from 2 pounds to 16 pounds, and is deep in the body, the shoulder abruptly descending to the head which is very small, the jaws are toothless, the snout blunt, and the gape contracted. The large silvery scales upon its sides, or as some think, the whiteness of the flesh have gained for it its distinctive name. No fish is more justly esteemed for table purposes,

and to explorers and Indians it is invaluable because a continuous diet of white-fish, unlike salmon, never palls upon the taste. There are several species which abound in almost all the lakes from the Atlantic to the Pacific, and their capture constitutes one of the most valuable of the fresh-water fisheries, the annual yield being not less than 9,000 or 10,000 tons, or about one-fifth of the yearly take of cod-fish. The lesser whitefish, called cisco and lake herring, have become valuable in recent years, as the larger species have been considerably depleted. They feed upon insects and small crustaceans, and like the salmonide generally, they resort in the fall to their accustomed spawning grounds, traversing, in many cases, great distances to do so.

The speckled trout or brook trout of Canada (Salvelinus fontinalis, Mitchill), is more allied to the charrs than to the common river trout (Salmo fario, L.), of Europe. Instead of the silvery sides with comparatively large scales, showing minute red and black spots, the Canadian speckled trout has small scales, dusky green back and dorsal fin vividly diversified with yellow vermiform markings, the sides being spotted with red, white and black. The redd'sh paired fins show a cream-white anterior margin. It is more important for sport than commercially,

but its game qualities are inferior to those of the English trout.

The maskinonge (Esox nobilior, Le Sueur) bears a general resemblance to the pike (Esox lucius, L.), but is in many respects superior. Its edible and game qualities are remarkable, and it often attains a weight of 70 pounds. Whereas the pike is blotched with white on its greenish brown or dusky sides, the maskinonge exhibits brown blotches on a pale ground colour. The branchiostegal rays are 17 to 19 in number, but in the pike 14 to 16. Most of the still waters of Quebec and Ontario contain this fine game fish, but it has greatly decreased in numbers, though splendid fishing is still to be had in lakes Scugog, Rice, Simcoe, and other Ontario waters.

Black Bass (Micropterus, Lacep): The two species of black bass rank high in

Black Bass (Micropterus, Lacep): The two species of black bass rank high in the estimation of the angler. They range from 2 lbs. to 8 lbs., and are bold, strong and gamey. The flesh is firm, white, and of great excellence. The nest-building habits and strong parental instincts of these fish are well known. Striped bass (Roccus lineatus, Bloch) occur in the tidal waters along the Atlantic cost. They reach a great size (15 lbs. to 40 lbs.) and afford splendid sport. They are, with the exception of the salmon, the choicest of food fishes, but their destruction when dormant in the rivers in winter, and the taking of the immature young in smelt nets, has seriously depleted them.

Catfishes or Siluroids (Ameiurus). A great variety of species occur in the rivers and lakes, and all are characterized by the long feelers which project from the upper and lower jaws. In size they range from 2 or 3 inches, to 4 or 5 feet, and as there is a good demand for them in the United States markets, considerable catfish

fisheries have grown up in some localities.

The two Ganoids Lepidosteus, (gar-pike) and Amia, (Bow-fin or Lake Dog-fish), are fairly plentiful in the lakes and slow streams, especially in Ontario. These fish are interesting as representing the extinct armoured fishes which were abundant in the Devonian and Carboniferous ages. The fossil species were numerous; and their living representatives few. Of the two groups of Ganoïds the osseous and the cartilaginous the sturgeon belongs to the latter, and is now of great market value. Most of the sturgeons descend to to the sea, but one of them (Acipenser rubicundus, Le Sueur) is strictly a fresh water form and ranges from 40 lbs, to 120 lbs, in weight while the giant B. C. sturgeon ranges from 500 to 1,200 lbs weight.

Of the shad and the remarkable salmonoids of the Pacific waters, it is not

necessary to add any remarks in this necessarily brief sketch.

Ever since the discovery of this vast western continent the richness and value of the Canadian fisheries have been acknowledged, and though the fishing fleets of Norway, Portugal, Spain, France and England, have for centuries prosecuted commercial fishing in the waters of the Dominion, and the old colonial provinces, the United States and the British provinces have taken from them incalculable quantities of fish food for the markets of the old and new world, they still remain the greatest and most varied fisheries in existence.

TI.

ON THE TREATMENT AND PLANTING OF SALMONOID FRY.

By Professor E. E. Prince, Dominion Commissioner of Fisheries, Ottawa.

In the report of this department for 1895, I published some notes on the culture of trout. My remarks had reference mainly to the procuring of eggs, the process of fertilization, and the management of the ova during incubation. These notes appear to have aroused widespread interest, and in consequence of their publication a large number of attempts have been made by private parties to commence fishculture, especially the culture of speckled trout or brook trout. From the number of communications which have reached the Department of Marine and Fisheries upon the hatching and rearing of trout, the hope which I ventured to express has been fully realized when I said "there is evidence of a growing desire in various provinces on the part of enthusiastic individuals to pursue private fish-culture, and to second and to support the efforts of the Department of Marine and Fisheries in recuperating various waters in the Dominion."

It is true that in some concluding paragraphs in the report alluded to, I pointed out some of the conditions necessary, not only for the successful incubation of the eggs of the trout, but also for the rearing of the newly hatched fry. I added some details, indeed, respecting the building of ponds, and the steps desirable to guard against enemies of hurtful influences, in short, I pointed out the precautions

required in order to ensure the best results.

The four main considerations for success in planting fry are:

(1) The best age at which fry could be planted in order to ensure the largest results.

(2) The season and climatic conditions best for transport.

(3) The places to be selected for planting.

(4) The precautions necessary to be observed when the fry are in transit.

When the hatching of eggs is carried on upon an extensive scale it is very necessary to commence the work of distribution with as little delay as possible. The advent of warm weather brings many dangers which are avoided by planting

in the early and colder days.

Newly hatched fish carry on their under side a large bag of food-yolk upon which they feed by a process of absorption. There is danger in handling fry when the sac is large as the delicate envelope or skin outside is very tender, easily abrades and ruptures, causing the death of the fish. It is wise therefore to allow them to remain in the hatching troughs for 10 or 20 days, by which time the yolk-ball has much diminished and the fish are more hardy and robust. There is of course danger from various causes of losing a large proportion of the fry of whitefish, salmon, and trout if they are retained long after the absorption of the yolk sac. Fungus, which may also attack eggs during incubation, is one of the most pernicious. What is called "dropsy" in the yolk-sac is not common, inflammation or clogging of the gills is frequent, but fungus is an epidemic that often carries off entire batches of

The commonest remedy is common salt, of which a saturated solution is made, practically strong brine, and this is poured into the tanks containing the infected It is a good plan to turn off the supply tap so as to leave 2 or 3 inches of water in the tank, and it is easy then to convert the contained water into a fluid not quite the strength of sea-water. It must be thoroughly mixed and the fry left in for about half an hour. Usually the bath has no ill effect; but if the fry appear to be becoming weak or discomforted, the fresh water should be turned on again. A bath of this kind has been found beneficial, though it requires care, as young salmon

immersed in sea-water too long die from hardening of the yolk-sac, which becomes dense like india-rubber. Recently another remedy has been advocated, viz., permanganate of potash, which sweetens the water and destroys organic germs. The Revue Scientifique notes that at the Geneva Exhibition, 1896, permanganate of potash was used to clean the aquarium, and it is claimed that it prevented the specimens of the salmonidæ from being attacked by Saprolegnia. It is a matter, however, of experiment as yet, and further trials are necessary to establish its success.

One recent experimenter tried a new method and with a small painter's brush or the thumb and finger, removed the fungus, and then with a solution of 18 grs. of bichloride of mercury diluted in a 6 oz. bottle, he applied with a camel-hair brush this solution over the parts affected, holding the fish a few seconds before returning them to the water, which was changed daily. The result, he states, is that after one application his fish entirely recovered, with but a few exceptions, which however,

were cured by a second application.

There has been much controversy respecting the merits of planting small and helpless fry and planting yearlings or fingerlings, which have been kept in ponds and fed on artificial food. It is admitted that great loss results when fry are thus impounded, and the trouble and expense are serious if a great quantity of fry are being reared. Some of the best pisciculturists (like Mr. F. Francis) have advocated turning the fish out at once i. e., just before or at the time they begin to feed. The strongest argument in favour of this course, apart from the loss by death and the saving of time, money and labour, is that derived from the contention that fry if kept in artificial inclosures and fed become semi-domesticated after a few months and, when liberated amongst their wild companions already in their streams and lakes, fall victims either to starvation (from inexperience in foraging for food), or to predaceous enemies (from which they have been from the hatching stage carefully guarded). Very young salmon and trout attack their weaker brethren and artificially reared "yearlings" certainly do not commence free life on equal terms, with those reared by nature. There is much therefore to be said in favour of using all haste in planting these fry in suitable places after hatching and before the yolk is entirely absorbed. "They do not want any food" said Frank Buckland "for they are supported by the contents of the umbilical vesicle and at this time above all others require protection. You may at this time increase the flow of water, for I have discovered from painful experience, that water which is sufficient for a given number of eggs is not sufficient for the same number of young fish, when they come out of the eggs." It is, however, a fact that young fry frequently take food, and swallow small particles before the yolk sac has been entirely absorbed. As a rule the yolk has gone before the 35th or 40th day after hatching. If the yolk sac is halfabsorbed, say on the 20th day, the fry may be safely planted. They have sufficient food to last them until they are thoroughly accustomed to their natural surroundings, and are able to shift for themselves.

The cool and favourable weather of April, May or early June, unless the season be later than usual, is adapted for distribution, and the risks of loss at that time from long or tedious journeys is reduced. Such long and perilous trips are as far as possible to be avoided; but they are often necessary in order to reach the shal-

low upper waters which are most suitable for planting the young fry.

The question has often been discussed whether fry whose incubation has been protracted are stronger than those which have been hatched earlier under a higher temperature. Certainly the mortality in broods of English trout hatched in water below 40° F. is far less than when the water is of a higher temperature. The same has been found to be true of the Canadian speckled trout and the Rainbow trout.

In a series of ova which had reached an advanced stage in water of 48° F., and were then placed in trays supplied with water 10° lower, the hatching out did not take place until the 120th day, though they are known to hatch in 50 or 60 days under a higher temperature. The resulting fry are more robust, and fewer die during the early stages after liberation from the egg than in those hatched at a tem-

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perature of 48° to 60°. Actual tests on spawning beds have shown that for long periods the water may not rise above 34° or 35° until April, and the period of hatching is therefore prolonged to 150 or 160 days, with the result that the fry are

stronger and more healthy.

In accordance with the conditions which obtain in nature, the fry, after exclusion from the egg, should not be subjected to very low temperatures, but water ranging from 45° to 55° is most suitable. The carrying of fry to the localities where they are to be deposited is an important matter. Railway journeys, if not too protracted, do little harm to fry, unless the cans or tanks holding them are kept too near a stove or hot coils. Excessive heat often proves fatal in railway ears, but as a rule, journeys by rail are less perilous than by team over rough roads, when the shocks and collisions seriously disarrange the delicate organization of the young fry, and damage it is believed the sensitive otocysts of the little fish. Team-drives over rough trails through forests are not conducive to the well-being of fry, and when possible, cans should be carried, in the matter described later, over very rocky or uneven tracts. Conveyance by boat or canoe is by far the best mode. Cans specially contrived for the purpose are best, and should be made of heavy galvanized iron* or stout iron well tinned, and holding 10 to 12 gallons of water. They may be 24 or 26 inches high, and say 18 inches in diameter, but may be of the form of a truncated cone, with a narrow neck in the centre for the nurpose of preventing the splashing and loss of water as far as possible. Into the neck (say 6 inches in diameter), a cylindrical can fits, the bottom of which is made of fine metal gauze. The gauze not only allows of aration, but when necessary serves as a receptacle for pieces of ice, which, melting, trickles into the water below in which the fish are swimming about. The ice is often broken up into fine pieces or crushed, if it does not melt and cool the water properly. It should always be remembered that the young of fishes, above all salmonoid fishes, cannot endure heat, nor are they able to withstand frost with impunity. Indeed, ice placed in the lid of the can or tank has proved harmful when on warm days the fry have been surrounded for some hours by water of 50° or 60°. Hence the advisability of transporting young fish either in the early spring months or during the night, and at early morning when the season is warmer and more advanced. At such times they can be most safely shipped.

even eggs during the first few weeks are very sensitive, and within three weeks after fertilization they should be subjected as little as possible to concussions and rough usage. Salmon eggs 22 days old died in 8 or 9 days after being roughly handled during some experiments by the late Dr. Francis Day, the well known British salmon authority, but after the 47th day only very hurtful causes, such as chemical impurities, &c., will do them any harm, and "eyed" eggs are hardy in the extreme. No doubt vast numbers of ova are lost every year at the head waters of salmon rivers by being frozen. Certainly in 1881 this loss was very severe on many Scottish rivers. The famous physiologist, Dr. Davy, brother of Sir Humphrey Davy, imbedded salmon eggs in ice, and found that they survived; but his experiments provided conditions probably more gradual than the severe and trying circumstances

of freezing near the source of a river.

In order to keep the cans suitably cool an outside jacket of iron is often provided, separated by an empty space from the inside can containing the fry. Such double cans are very effective, and being much cooler than ordinary cans the fry are shipped in them with much greater safety and success. Whitefish fry which are very small and delicate will to the number of 15,000 to 25,000, travel in one of these cans without loss if the journey be not long and trying; but half that quantity of brook trout and salmon would as a rule suffice. Some authorities favour the wise principle of putting a minimum quantity of fry in each can and regard 3,000 to 5,000 as ample, but with newly hatched fry before the gills are properly developed,

^{*} While galvanized iron is the best material, it must be remembered that the spirits of salt, used in soldering is very hurtful, and new cans, should stand full of water (often renewed) for eight or nine weeks.

and before they have acquired their full larval activity and vigour a greater number can be safely shipped in each can. Ten cans is a full shipment for one team, and fewer cans are in most cases advisable. At the famous Howietoun fish-ponds in Scotland, the lamented Sir James Gibson Maitland, whose recent death all interested in fish-culture must deplore, used a conical form of can 24 inches in diameter across the bottom, and $4\frac{1}{2}$ inches in diameter at the top. The height of this can is 32inches and the weight, when filled, about 170 pounds, so that two men could easily lift it about by means of two strong handles fixed at points a little above the centre of gravity (about 14 inches from the bottom). When it is necessary to convey the cans along forest paths or across rocky hills, two poles are horizontally attached to the handles, and the can is then easily carried—one man walking in front and the other behind. Many Scottish lakes situated on the highest altitudes have been

successfully stocked by this method.

All fry should be planted immediately after arrival. If the hour of arrival at the planting ground be midnight or during the small hours of the morning so much the better, the atmosphere is then cool. In any case no time should be lost as every moment is of importance, and the sooner the fry are disporting themselves in the clear waters of the stream or creek the greater is the assurance of success. Under no plea whatever should fry be kept in the cans over the night. Great risk is run by a few hours' delay. If through the impossibility of obtaining a team or other cause it is absolutely impracticable to at once plant them they should be constantly watched and fresh water splashed in, or the water aerated by a bellows or other means. Aeration is most easily and effectively done by lifting up water in a dipper from the can and letting it fall again with a splash: but on no account should the device be adopted by blowing down a tube into the can with a view to aerating the water. Such an absurd plan has been actually adopted by some manipulators: but in blowing down poisonous air from the lungs, the water in the can already vitiated with carbonic acid gas, becomes more vitiated and poisonous. The surest way of killing and asphyxiating fish suffering from lack of oxygen is to blow air from the mouth into their midst.

Again, fry should not be unduly knecked about or the cans roughly handled. "Fry will not stand much knocking about," wrote the late Sir Gibson Maitlandthe bottom of a tank (or can) used for transporting fry should be stiffened by cross pieces soldered underneath, as, if it saggs at all, the fry soon get fatigued, possibly because the least spring from the bottom frightens them and they exhaust their strength by frequent and aimless sallies through the water," The same author "With care fry can be carried for twenty-four hours: but the result also wrote.

is not satisfactory if the journey be longer.

Of course small quantities of fry can be sent further and more easily than large. The re-aeration of the water is a difficulty. It cannot be done automatically, as is the case with yearlings, because the motion the water acquires tires out the fry. In fact, the object of filling the tank well in to the cone of zine is to check the

motion."

It usually suffices in a long journey to change the water at appropriate intervals. The fact is well known that little salmon and trout, only 2 or 3 weeks old, actively wave their pectoral fins to and fro and thus create a current of water which aids in oxygenation, and facilitates the breathing operations of the fish.

The actual planting of the fry is a most important matter, and a good deal of

very inappropriate advice has been published upon this matter.

It is clear that fry should not be suddenly transferred from a warm can to a can of water that is several degrees higher in temperature than the lake or stream.

The temperature should be somewhat equalized by mingling the two waters before the fish are emptied out. The temperature of the water into which the fry are to be transferred should not be more then 6° higher or lower than the water

in which they have been carried from the hatchery.

It is hardly necessary to say that if fry are being sent some distance to be planted, it is an advantage to have all arrangements for their reception made before hand, so that teams may be waiting the arrival of the cans and an immediate start be made. Before placing the cans on the team it is advisable to remove the ice from

the covers of the cans unless the outside atmosphere be very warm. Cans of fish should never stand in the hot rays of the sun: but a cover or sheet should be so placed as to shield them. Cans should also be thoroughly rinsed and cooled with water before fry are placed in them. Fish frequently become sick before leaving the hatchery because this rule has not been observed and the fry placed in cans which have been warmed by the sun or nearness to a stove.

It is a good principle to find out where the fish naturally spawn in the waters to be planted, or if no fish of the same species occur, to ascertain where the best natural conditions exist. Thus whitefish should always be planted on clean gravelly ground in fairly shallow water, or where reefs of honeycomb rock extend. Brook trout and salmon should be placed near the head of streams or as far up tributaries of large rivers as possible, avoiding, however, those which dry up in summer.

Lake trout do best if distributed over rocky shoals such as are selected by the parent fish. In such places as those specified there is abundance of shelter, and the small fish, as a rule, make at once for niches in the rocks, or the protection of pebbles and stones. As pike, pickerel and other predacious fish are in the spring occupied in spawning, there is less danger from these fish than is commonly sup posed, especially as the first-named are then in weedy, marshy localities engaged in depositing their eggs. If sunfish, shiners, small suckers and pike appear to abound, it is best to select some other areas which are free from these destructive pests, or if that is not possible drive these fish away by disturbing the water,

sweeping a net over the ground or some such method.

It is often the case that neither time or circumstances will admit of reaching the best and most appropriate localities, and the planting must be done where it is apparent the young fry would not have been under natural conditions found. After much experience with young fry, I am bound to confess that planting fry upon what may not appear the most suitable grounds results in better success than might have been anticipated. The charge often made against officials of merely dumping in the fry at the most convenient rather than the most suitable places is less grave than might be imagined by the inexperienced. A man standing on shore with one foot, encased in a fisherman's boot, in the water, can pour the fry gently into a deep part near the edge, and the fry will immediately seek shelter. A better plan is to gently empty the fry from a boat and the fry disperse before they reach the bottom. For a few minutes the mass of young fish appear to crowd together and then spread themselves and disappear from sight. That they survive and do well admits of no doubt as the remark, already made, applies in this case, viz., that the chief enemies of the young fish are in swampy shallows engaged in depositing their spawn. In thus favouring the planting of fry in deep water where it is a matter of difficulty to plant them in small batches in shallow water, I have the support of the late Sir Gibson Maitland who wrote: "At first we used to place the fry in the shallowest water near the inlet of the ponds; but they were so frightened that they used to be huddled together in masses..... when poured into deep water they instantly disperse, and in a few minutes have spread all over the pond in a lively and inquisitive spirit."

TIT.

THE PROPAGATION OF BLACK BASS

By Professor E. E. Prince, Dominion Commissioner of Fisheries, Ottawa.

That there are numberless sheets of water in various parts of the Dominion, which are suitable for black bass, but at present inhabited only by inferior fish or destitute of fish life altogether, admits of no doubt. The combination, in both species of black bass (the small mouth and the large mouth species), of the qualities of a fine game fish and an excellent food fish, renders them especially valuable, and their artificial culture and distribution, is a matter of importance. Their dauntless and hardy nature fits them for planting in new and untried waters, and unlike the timid and defenceless whitefish, they are bold and strong enough to hold their own against perch and pickerel (doré), or even the pike, and the more predacious kinds.

In the Government hatcheries, carried on under this department, black bass have not been hatched, nor are they suitable for the usual methods of artificial incubation in trays or in glass jars. In last year's Departmental Report (Appendix No. 1), in a somewhat exhaustive though condensed account of fishes' eggs, I referred to the ova of the black bass as not very favourable for artificial culture as they belong to that class of eggs provided with a soft mucilaginous coat, by means of which they are held together in tenacious masses. I referred to the fact (p. 24 of the same article) that they "are generally placed in a nest of more or less perfect construction. They become attached by this viscid envelope of jelly to pebbles, twigs and weeds, of which a kind of nest is usually constructed by the parent fish.'

Eggs of this type, as I pointed out in the account referred to, are most unsatisfactory for treatment by the methods of artificial incubation. Only a small proportion of such eggs can be reared by the exercise of considerable care and trouble, and the results are altogether inferior to those secured when non-adhesive individually separate eggs, like those of the trout or whitefish are selected. The reason of this serious failure is complex and arises from several causes, such as the difficulty of obtaining ripe spawn, the peculiar nature of the eggs, which prevents perfect aeration, the evil of foul decaying matter, which finds lodgment in the egg-masses, and the contagion of adjacent dead eggs. Such eggs offer great facility for the germination of parasites and deadly fungi. The difficulties, referred to, were pointed out ten years ago by the late Professor J. A. Ryder, and in speaking of adhesive eggs, such as those of the black bass, he said "it is difficult to prevent the lodgment and rapidly fatal germination of the spores of Saprolegnia or Achyla, i.e., aquatic fungi or moulds, found in all fresh waters upon dead as well as living eggs. rapidly do these fungi grow that in a very short time their ravages will extend over an entire tray of adhesive eggs. The eggs are destroyed by the fungus sending filaments into their substance, while the mesh of the mycelium also affords lodgment for dirt, so that the two together effectually shut off the possibility of oxygenating the ova, so that they are smothered."

In my earliest experience with the methods of fish culture, the fact was forcibly impressed upon me that the eggs which adhered in masses, like the eggs of the marine herring (Clupea harengus), the lumpfish (Cyclopterus lumpus), and other species, a considerable percentage failed to survive the necessary period of incubation, and as the dead eggs could not be torn out from the mass without injury to the attached healthy eggs, the adjacent eggs became fatally affected, and putrefaction

spread through the whole mass.

By Professor Reighard's ingenious starch method the kinds represented by the adhesive pickerel's (or dore's) egg can be successfully handled and a larger percentage incubated than by any other method: but such eggs as those of the black bass are specially difficult to treat by any of these methods. The female bass even when in a ripe condition is able to retain her eggs by strong muscular effort, so that they do not flow freely when the hand of the fish culturist is gently pressed along the underside of the boly. In many fishes it is impossible for the female to retain the eggs, when they are fully ripe, especially if pressure be applied: but in the case of the female black bass the case is entirely different. The male, too, presents a similar difficulty, and whereas a male sammon, or trout or whitefish, when ripe, is easily handled, and a supply of sperms or milt readily obtained, the male black bass is very

obstinate in this respect.

Indeed some authorities state that the only reliable method is to secure the parent fish of both sexes, at the spawning time, and after killing them to remove the ripe eggs and milt from each. It is often found that specimens of male and female bass when obtained are not ripe at the same time, and disturbing them often prevents the process of spawning, so that the ripe reproductive elements are not discharged. No doubt great losses occur in some waters, especially in shallow creeks, which become partially or wholly dry in the months of June and July and later. These are precisely the months which are the most important in regard to the supply of black bass, for the eggs are then undergoing incubation and the fry are hatching out.

A plan was adopted some years ago by the State of Wisconsin for saving these imperilled ova and young fish, and in the report of the Fish Commissioners for the

year 1893-4, they give the following details of the steps which they took:-

"The commissioners became satisfied in the summer of 1893 that great benefit would result to the state by the saving of the bass fry in the sloughs of the Mississippi River. That river overflows its banks in times of floods, forming shallow lakes and sloughs along the banks and on the islands. Into this shallow water the bass go to deposit their eggs. On the subsidence of the waters the parent fish return to the channel waters. The eggs hatch by the millions and the young fish are left to perish, either by the sloughs drying up in summer or freezing in winter. Nevin made careful examination, and after correspondence with Hon. Marshall McDonald, the United States commissioner, the work of rescuing these young fish, depositing the common varieties in the nearest channel waters and saving the bass and pike for distribution to other portions of the state, was begun in the month of September, 1893. The work was new to Mr. Nevin and his assistants when commenced, and experiments in methods were necessary. But it is believed that excellent results will follow this work. Superintendent Nevin, in his report, says: "I regard the rescuing and distribution of fish from these low places along the river, where they would otherwise inevitably perish, as one of the most economical and practical methods of re-stocking our inland lakes. All the fish so planted are adapted to any of the waters of the state; and the cost of taking and planting them is very small compared with the cost of the artificial propagation of the same species, since we now have a fish car for transporting the live fish." Hon. Marshall McDonald, the United States commissioner of fisheries, writes that "in no other way can so valuable results be accomplished from so small an expenditure."

The removal of adult black bass requires special care at the breeding time, as it may happen that the fish have already prepared their nests and placed their eggs therein, or even hatched their young. These young fry if left without parental protection, as a rule, fall a prey to predacious enemies. The Vermont commissioners, in their Fisheries Report for 1888, quote the experience of Mr. C. F. Holt with a batch of these forsaken black bass, who says: "When I went out in the morning the mother fish was gone. I thought I would secure the young fish (they were just hatched), and take them to the house and 'bring them up by hand.' So, putting on my wading boots. I walked out to the bed, and there I found, not the young fry, but three or four crayfish and some minnows, which had evidently devoured every fish on the bed. At another time, under similar circumstances, except that the eggs were not hatched, the crayfish had destroyed all the eggs. I took up every pebble without finding a single one." Although the eggs appear to hatch in about a week or ten days, the transparent and delicate fry are guarded for many weeks. This

period of protection lasts from one to two months.

The experiment has been tried of removing the eggs from the nest and artificially rearing the fry, but the difficulty of aeration, as already pointed out, is great, and many eggs are lost from fungus and non-aeration.

The only really feasible modes of black bass propagation by artificial means are the simple methods of (1) transferring adult parent fish, (2) half-grown fish, or (3)

small fry after the period of parental protection is over.

Of the transportation and planting of full-grown fish, it is not necessary to say much. Success has attended the transplantation where it has been tried, and the well-known experiments of the Marquis of Exeter, Mr. Alexander Begg, of Victoria, B.C., of Mr. Max von dem Berne, of Berneuchen, and others, have shown that good results can be ensured by such attempts. In Mr. von dem Berne's experiments only three fish survived out of a considerable number, but they produced eggs which yielded, after the male had fertilized them, broods of young, no less than 1,300 in total number. The number of eggs yielded by a single female varies from 2,000 to 10,000.

I quote, from the narrative of Mr. Silk, the details of the Marquis of Exeter's

shipment of black bass across the Atlantic:-

"All of the black bass that I brought in 1878 from the United States of America were taken from the Delaware River. I placed them in boxes floating in the stream ready to be taken away. On the day preceding the sailing of the steamer for England they were placed in the tanks I had prepared for them by the river side. We got them to the train without any loss, and on arriving in New York had them placed on the main deck of the steamer; it was then 11 p.m., we having left the Delaware River at 3 p.m. Up to this time I had no loss; my greatest trouble was the high temperature it stood at -78 deg. all night. I kept the water as cool as possible with ice. I stayed by the tanks all night pumping air every few minutes, and keeping people from meddling with them. When daylight came I examined the tanks and found five dead fish, which I removed at once. It was now 5 a.m., and the ship was to sail at 6 a.m. I got some men to assist me in changing the water in the tanks. I had one spare tank, which I filled first, then reduced the temperature from 75 deg. as it came out of the hydrant to 58 deg., then placed the bass in it, and so on until I had given them all fresh water. We sailed at 6 a.m. When we got out to sea a few miles, I made arrangements with two of the steerage passengers to assist me on the voyage. It was then 9 a.m. I gave them both instructions what to do. After this I arranged with my men to keep watch two hours each, and to relieve each other at meal times. I always took four hours' watch in the night. I then roused one of the men and gave over the fish in good order. If there were any dead I always took them out at once. I made it a point never to go to my cabin at night. We got on very well the first day, as it was cooler, but after this we got into the Gulf Stream; both the air and sea were very hot, the atmosphere 85 deg., and the water in the sea 78 deg. It was during these five days we lost the most fish. We cleared the water every day by straining it through flannel, all thick and dirty water we threw away and added some fresh water made by melting ice. The sixth day out we got into cooler weather, and the fish commenced to do better. The temperature of the atmosphere dropped to 57 deg. We used very little ice unless to make fresh water with. We kept on like this until we reached Liverpool, after ten days' passage. I now got fresh water and changed all the tanks. The fish did not object in the least, but were quite lively. It did not hurt them changing the water from American to British. I got them conveyed to the railway station and placed on a truck. We arrived in Stamford in due course, and on counting the fish I found we had 153. I left the Delaware with 250, so that I had lost 97 fish in twelve days.

In 1879 I went again, and started from America with 1,200 black bass, and on arriving home I had 812, having done better than I did on the previous occasion. All of the black bass were for the Marquisof Exeter, he having borne all the expense of the experiment. Most of the fish were placed in a lake belonging to his lordship called Whitewater, near Stamford. Not any of them have been caught yet. From what I could learn they would be about half-a-pound each in weight, so that they had done very well. The first lot that were put in will be three years old in April,

when they are expected to commence breeding."

For merely shipping from one lake or river to another where the distance is

comparatively short it is not necessary to adopt more than the usual precautions observed in shipping any other live fish. It is very advisable that as few as possible adult fish be placed in one tank or barrel, as bass are provided with sharp spines, and are apt to seriously wound each other if too closely confined. Twice as much room should be allowed for bass as for species whose fins are soft-rayed. To transplant bass all that is necessary is to procure the adult parent fish from fishermen or

otherwise and transport them alive to the waters to be stocked.

This plan can be readily carried out by arranging with fishermen who are in the habit of netting these fish, telling them to be careful in taking them from their nets without injuring them and placing them in cribs sunk in the water near by until found convenient to transport them to their intended destination; this can be done quite safely if the distance is not too great by putting say 10 or more bass in the ordinary sized water barrels, say 30 or 40 gallons three parts filled with water. If they are to be carried short distances, spring wagons or sleighs may be used, for longer distances shipment by railway.

Numbers of bass have been transported in this way from Belleville on the Bay of Quinté up to the Newcastle Government hatchery, where all of them except those which had been severely injured by the nets arrived safely and large numbers of fry were hatched and reared in the natural way in their circumscribed inclosures or

ponds.

With ordinary care and attention given to the netting, cribbing, transporting, and planting of black bass in new waters success is ensured. Little need be said of the transporting and planting of black bass fry. They should be collected soon after the period of parental guardianship and may be netted in schools by means of a fine meshed dip-net, or a seine. Black bass 2 to 4 inches long are very suitable for the purpose, and they attain that size in the fall of their first year. Black bass 5 to 6 inches long are about a year old, but when first hatched they are barely 3/4 in, in length. In a 15 gallon cask 1000 yearling bass have been shipped a distance of 500 or 600 miles: but the fewer that are placed in each can or cask the more likely is success to be secured. In the late autumn bass can be carried most safely, but many successful cases of transplantation have occurred which took place in July and August. The Department of Marine and Fisheries in 1896 sent a small consignment of black bass to British Columbia from Western Ontario, and a proportion of then arrived on the Pacific coast in good condition, as stated in last year's report. Through an accident and detention in the Rocky Mountains, many of the fish, however, died on the way. Small black bass are very cannibalistic, and those of fairly uniform size only should be placed in the same pond.

On the whole the transference of adult fish is the most practical and successful plan, and 40 or 50 such fish placed in a pond of moderate dimensions will in the course of a few months in summer rear many thousands, 50,000 to 100,000, young

fry and thoroughly establish themselves.

APPENDIX No. 1.

EXPENDITURE AND REVENUE.

The total expenditure for all Fisheries Services, except Civil Government, for the fiscal year ending 30th June, 1897, amounted to \$443,586.78, being within the appropriation by \$34,025.87.

The total fisheries revenue, during the same period, from rents, license fees, fine and sales, including the *modus vivendi* licenses to United States vessels amounted to

\$106,469.55.

Service.	Expenditure	Vote.
Fisheries Fish-breeding Fisheries protection service Fishing bounty Miscellaneous expenditure Total		\$ cts. 100,000 00 40,000 00 100,000 00 160,000 00 77,612 65 477,612 65

The details will be found in the Auditor General's report under the proper

headings.

In addition to the above, the following summary shows the salaries and disburscments of fishery officers in the several provinces, together with the expenses for maintenance of the different fish-breeding establishments throughout the Dominion:

Service.	Expenditure	Vote.
Fisheries, Ontario do Quebec do New Brunswick do Nova Scotia do Prince Edward Island do Manitoba do North-west Territories do British Columbia	21,671 92 23,682 33 3,744 36 1,908 14 3,181 58 8,841 64	\$ cts.
General account	99,731 64	100,000 00

SALARIES and Disbursements of Fisheries Officers-Continued.

	Service.	Expenditure	Vote.
		\$ cts.	\$ ets
do do do do do do do do do do do	g, Ottawa hatchery Newcastle do Sandwich do Tadoussac do Gaspé do Magog do Restigouche do Bedford do Bay View do Sydney do Miramichi do St. John Riv. do Fraser Riv. do Selkirk do	2,812 02 4,854 74 2,459 27 1,623 30 451 11 2,525 77 1,200 13 2,146 85 730 09 1,941 01 1,781 00	
General acco	ount	27,330 73	

This expenditure by provinces is subdivided as follows:-

EXPENDITURE.

Ontario.	\$ cts.	\$ cts.
Salaries of officers. Disbursements of officers. Miscellaneous	14,397 80 6,707 99 486 61	
Total		21,592 40
Quebec.		
Salaries of officers. Disbursements of officers. Miscellaneous.	8,015 57 4,693 68 201 55	
Total		12,910 80
$New\ Brunswick.$		
Salaries of officers. Disbursements of officers Miscellaneous.	13,653 13 7,879 70 139 09	
Total		21,671 92
Nova Scotia.		
Salaries of officers Disbursements of officers Miscellaneous	14,574 93 8,921 00 186 40	
Total		23,682 33
Prince Edward Island.		
Salaries of officers. Disbursements of officers. Miscellaneous.	2,481 26 1,157 40 105 70	
Total		3,744 36

EXPENDITURE—Continued.

EXPENDITURE—Continued.		
Manitaka		
Manitoba.	\$ cts.	\$ cts.
Salaries of officers Disbursements of officers Miscellaneous	1,323 95 581 89 2 30	
Total		1,908 14
North-west Territories.		
Salaries of officers Disbursements of officers Miscellaneous	$\begin{array}{c cccc} 1,785 & 69 \\ 1,350 & 64 \\ & 45 & 25 \end{array}$	
Total		3,181 58
British Columbia.		
Salaries of officers. Disbursements of officers. Miscellaneous	4,921 47 1,163 12 2,757 05	
Total		8,841 64
General account		2,198 47
Grand total		99,731 64
FISH-BREEDING.		
Newcastle Hatchery.	\$ cts.	\$ ets
Salaries	450 00 2,362 02	
Total		2,812 02
Sandwich Hatchery.		
Salaries Miscellaneous expenditure	900 00 3,954 74	
Total	,	4,854 74
Ottawa H atehery.		
Salaries Miscellaneous expenditure	700 00 407 43	
Total		1,107 43
${\it Tadous}$ sac ${\it Hatchery}$.		
Salaries	650 00 1,809 27	
Total		2,459 27
Gaspé Hatchery.		
Gaspé Hatchery. Salaries Miscellaneous expenditure Total.	400 00 1,223 30	

FISH-BREEDING—Continued.

Magog Hatchery.	\$ cts.	\$ ets.
Salaries	253 98 197 13	
Total		451 11
Restigouche Hatchery.		
Salaries	700 00 1,825 77	
Total		2,525 77
Bedford Hatchery.		
Salaries Miscellaneous expenditure	450 00 750 13	
Total		1,200 13
Bay View Hatchery.		
Salaries	450 00 1,696 85	
Total		2,146_85
Sydney Hatchery.		
Salaries	360 00 370 09	
Total		730 09
Miramichi Hatchery.		
Salaries	1,000 00 941 01	
Total		1,941 01
St. John River Hatchery.		
Salaries	600 00 1,181 00	
Total		1,781 00
Selkirk Hatchery.		
Miscellaneous expenditure		24 79
Fraser River Hatchery.		
Salaries	500 00 2,340 62	
Total		2,840 62
General Account.		
Miscellaneous expenditure		832 60
Total, Fish-breeding		27,330 73
Total salaries and disbursements of fishery officers		99,731 6

MISCELLANEOUS.

Miscellaneous.	\$ ets.	\$	cts.
Building fish-ways Legal and incidental expenses. Canadian fisheries exhibits and Ottawa hatchery. Expenditure in connection with the distribution of fishing bounties Surveys of oyster beds Str. "Coquitlam". International Fisheries Commission. Issuing licenses to United States fishing vessels. Behring Sea award. do commission. Vessel to replace "Vigilant" Newfoundland bait license fees. Fisheries and Yacht Exhibition Investigation charges against government officers F. C. Gilchrist.	176 46 3,910 51 829 29 4,997 93 4,359 49 1,046 02 1,355 82 479 32 3,388 86 30,207 26 9,991 97 267 31 389 99 1,243 74 133 33		
Total		62,777	30
FISHERIES PROTECTION SERVICE—1896-97.			
* Steamer "Acadia."	\$ ets.	\$	cts.
Wages of officers and men	8,588 09 3,276 79 2,505 95 2,209 82 6,398 09		
Total		23,078	64
Steamer " La Canadienne."			
Wages of officers and men. Provisions Fuel Repairs Miscellaneous expenditure.	1,539 87		
Total		12,059	54
Steamer "Stanley."			
Wages of officers and men. Provisions. Fuel. Miscellaneous expenditure.	1,651 63 1,079 43		
Total		6,929	16
Steamer "Curlew."			
Wages of officers and men	2,0,0	12,982	2 49
Total		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Steamer " Petrel."	6 900 07		
Wages of officers and men. Provisions. Fuel. Miscellaneous expenditure. Repairs	1,402 96		
Total		11,90	5 58

FISHERIES PROTECTION SERVICE, &c.—Concluded.

Steamer "Constance."	\$ cts.	· \$ cts
Wages of officers and men	6,198 13 2,370 67 1,533 59 1,606 22 2,918 85	
Total		14,627 46
Schooner "Vigilant."		
Wages of officers and men	985 99 616 72 22 00 11 05 107 76	
Total		2,235 52
Schooner "Kingfisher."		
Wages of officers and men Provisions Fuel Repairs Miscellaneous expenditure.	4,493 81 998 50 93 00 286 82 1,762 57	
Total		8,628 70
Steamer "Dolphin."		
Wages of officers and men Provisions Fuel Repairs. Miscellaneous	2,067 47 681 84 565 75 346 54 381 25	
Total	* * * * * * * * * * * * * * * * * * * *	4,042 85
Steamer. "Aberdeen."		
Wages, &c., officers and men Provisions Miscellaneous.	2,264 94 372 23 503 43	9 089 60
General account, Fisheries Protection Service— Wages, &c. Miscellaneous.	4,336 65 1,368 71	3,953 60
Fisheries Intelligence Bureau.	1,500 /1	5,705 36 2,925 82
Total		117,443 95
Less—Amount paid by Customs Dept. for Str. "Constance"		18,086 54
Net total		99,357 41

STATEMENT of Fisheries Revenue paid to the credit of the Receiver General of Canada, for the Fiscal Year ended 30th June, 1897.

				\$	cts
0	c	c . I		00.01/	0.0
Ontario, rents, licer	ise rees,	nnes, c	τc	32,814	
		do		7,876	
Nova Scotia	do	do		5,239	55
New Brunswick	do	do		10,110	77
PE. Island	do	do		2,032	
In 1 1000 1000 1000 1000 1000 1000 1000	do	do		1,719	
N. W. Territories	do	do		344	
British Columbia	do ·	do		39,888	
Dritish Columbia	uo	uo			04
				100,025	30
Less	sRefur	nds		1,140	
				98,884	40
T TT G #	4.1	,		90,004	40
Licenses to U.S. fi	shing ve	essels		7,080	10
,	Total			106,469	55
				-,	

COMPARATIVE Statement of Expenditure and Revenue of the

	1885	1885-86.		- 87.
	Expendi- ture.	Revenue.	Expendi- ture.	Revenue.
	\$ ets.	\$ ets.	\$ cts.	\$ cts.
ntario uebec ew Brunswick ova Scotia rince Edward Island lanitoba and North-west Territories. ritish Columbia ish-breeding and fish-ways isheries Protection Service.	17,900 74 13,938 21 15,719 36 17,852 33 3,187 73 1,920 73 1,878 53 44,038 80 37,613 30 10,350 43	15,917 62 2,963 75 4,078 10 2,166 53 40 00 922 50	19,534 01 14,966 55 16,944 87 18,092 21 4,044 49 2,468 25 5,860 72 37,864 22 134,340 12 11,327 77	15,063 57 3,804 66 4,417 52 1,585 28 128 00 5 00 943 50
TotalsFishing bounties	164,400 16 161,597 39	26,088 50	265,443 21 160,903 59	25,947 53
	189	1-92.	1892	2-93.
eneral Account Fisheries	15,155 83 10,917 36 15,707 98 18,755 86 1,835 65 3,593 43 6,158 17 42,957 74 93,397 40 17,449 06	25,368 90 4,742 76 6,334 83 3,357 42 166 00 1,079 00 8,192 48 178 00	20,116 91 11,761 34 15,721 05 19,444 22 2,847 60 3,932 96 5,490 60 47,322 49 106,805 39 100,602 14	30,623 09 7,471 70 7,831 53 6,782 02 304 10 1,661 68 40,264 00
TotalsFishing bounties	226,928 48 156,892 25	49,719 39	334,044 70 159,752 15	94,938 12

Fisheries Department, from 1st July, 1885, to 30th June, 1897.

1887-88.		1888-89.		1889–90.		1890–91.		
Expenditure. Revenue.		Expenditure. Revenue.		Expenditure. Revenue.	Revenue.	Expendi- ture.	Revenue.	
\$ ets.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts	
19,860 52 13,463 37 20,533 20 18,308 02 3,402 51 2,816 64 3,661 83 41,082 04 77,102 98 13,498 56	18,251 25 5,394 99 7,625 64 3,905 44 819 25 6,934 55	19,264 98 12,991 63 20,298 00 20,201 09 3,746 69 2,848 16 4,333 63 41,315 12 69,693 82 10,912 18	24,266 06 3,390 79 8,282 88 2,744 23 140 00 848 00 6,416 00 352 50	14,539 87 9,670 94 14,914 95 17,395 24 3,113 21 3,604 70 3,634 41 39,126 91 64,434 66 9,313 92	23,666 96 5,409 81 8,834 35 5,424 95 302 88 794 00 11,367 50	15,540 30 10,666 98 16,082 77 17,844 19 3,242 25 3,609 03 4,320 53 39,496 45 83,050 16 13,382 28	26,517 70 3,642 14 7,193 69 5,582 65 667 00 1,234 00 12,859 02 1,286 50 1,934 49	
213,729 67 163,757 92	42,931 12	205,605 30 149,990 63	46,440 46	178,748 81 149,999 85	56,976 83	207,234 94 165,967 22	60,917 19	
1898	3-94.	1894	95.	189	5–96.	1890	6-97.	
22,634 37 11,692 82 18,522 94 20,420 81 3,078 55 5,331 29 5,283 21 45,024 67 115,147 59	28,632 82 7,211 82 8,333 24 5,296 27 980 15 926 99 25,337 90	21,938 56 12,459 34 21,370 94 23,555 38 3,796 58 6,178 71 6,218 74 39,730 93 100,207 29	33,211 60 8,836 18 11,170 36 7,075 07 3,312 30 2,458 80 23,517 25	24,917 48 11,870 43 20,526 56 23,049 41 3,555 87 6,915 20 6,226 77 38,050 41 102,021 72	35,681 68 8,160 98 10,696 88 6,180 93 2,161 85 2,256 69 26,410 75	2,198 47 21,592 40 12,910 80 21,671 92 23,682 33 3,744 36 1,908 14 2,181 58 8,841 64 27,330 73 99,357 41	32,814 66 7,876 12 10,110 77 5,239 55 2,032 25 1,719 00 344 13 39,888 82	
34,892 19 282,028 44	76,719 19	24,619 86 260,076 33	89,581 56	20,203 25 257,237 10	91,549 76	62,777 30 289,197 01	100,025 30	
158,794 54		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		163,567 99 420,805 09		154,389 77		

APPENDIX No. 2.

FISHING BOUNTIES.

The payments made for this service are under the authority of Act 54-55 Vic., cap. 42, intituled: "An Act to encourage the development of the sea fisheries and the building of fishing vessels," which provides for the payment of the sum of \$160,000 annually, under regulations to be made from time to time by the Governor General in Council.

REGULATIONS.

The regulations governing the payment of the bounty established by Order in Council, on the 24th of August, 1894, are as follows:—

Order in Council.

AT THE GOVERNMENT HOUSE AT OTTAWA, FRIDAY, the 24th day of August, 1894.

Present:

HIS EXCELLENCY THE GOVERNOR GENERAL IN COUNCIL.

His Excellency, in virtue of the provisions of "The Bounty Act, 1891," 54-55 Victoria, chapter 42, and by and with the advice of the Queen's Privy Council for Canada, is pleased to order that the Regulations governing the payment of fishing bounties established by Order in Council of the 2nd November, 1893, and the amendment of the 27th November, 1893, shall be and the same are hereby rescinded and the following substituted therefor:

1. Fishermen who have been engaged in deep-sea fishing for fish other than shell-fish, salmon and shad, or fish taken in rivers or mouths of rivers, for at least three months, and have caught not less than 2,500 pounds of sea fish, shall be entitled to a bounty; provided always that no bounty shall be paid to men fishing in boats measuring less than 13 feet keel, and not more than three men (the owner included)

will be allowed as claimants in boats under 20 feet.

2. No bounty shall be paid upon fish caught in trap-nets, pound-nets and weirs, nor upon the fish caught in gill-nets fished by persons who are pursuing other occupations than fishing, and who devote merely an hour or two daily to fishing these nets and are not, as fishermen, steadily engaged in fishing.

3. Only one claim will be allowed in each season, even though the claimant may

have fished in two vessels, or in a vessel and a boat or in two boats.

4. The owners of boats measuring not less than 13 feet keel which have been engaged during a period of not less than three months in deep-sea fishing for fish other than shell-fish, salmon or shad, or fish taken in rivers or mouths of rivers,

shall be entitled to a bounty on each such boat.

5. Canadian registered vessels of 10 tons and upwards (up to 80 tons) which have been exclusively engaged during a period of not less than three months in the catch of sea-fish other than shell-fish, salmon or shad, or fish taken in rivers or mouths of rivers, shall be entitled to a bounty to be calculated on the registered tonnage, one-half of which bounty shall be payable to the owner or owners and the other half to the crew, except in cases where one or more of the crew shall have failed to comply with the regulations, then such share or shares shall not be paid.

6. The three months during which a vessel must have been engaged in fishing, to be entitled to bounty, shall commence on the day the vessel sails from port on

her fishing voyage and end the day she returns to port from said voyage.

7. Owners or masters of vessels intending to fish and claim bounty on their vessels must, before proceeding on a fishing voyage, procure a license from the nearest Collector of Customs or Fishery Overseer, said license to be attached to the claim when sent in for payment.

8. Dates and localities of fishing must be stated in the claim, as well as the

quantity and kinds of sea-fish caught.

9. Ages of men must be given. Boys under 14 years of age are not eligible as claimants.

10. Claims must be sworn to as true and correct in all their particulars.

11. Claims must be filed on or before the 30th November in each year.

12. Officers authorized to receive claims will supply the requisite blanks free of charge, and after certifying the same will transmit them to the Department of Marine and Fisheries.

13. No claim in which an error has been made by the claimant or claimants

shall be amended, after it has been signed and sworn to as correct.

14. Any person or persons detected making returns that are false or fraudulent in any particular will be debarred from any further participation in the bounty and be prosecuted according to the utmost rigour of the law.

15. The amount of the bounty to be paid to fishermen and owners of boats and

vessels will be fixed from time to time by the Governor in Council.

16. From and after 1st January, 1895, all vessels fishing under bounty license are required to carry a distinguishing flag, which must be shown at all times during the fishing voyage at the main topmast head. The flag must be four feet square, in equal parts of red and white, joined diagonally from corner to corner. Any case of neglect to carry out this regulation reported to the Department of Marine and Fisheries, will entail the loss of the bounty, unless satisfactory reasons are given for its non-compliance.

JOHN J. McGEE, Clerk of the Privy Council.

There were received for the year 1896, 15,211 claims, an increase of 484 over 1895.

The number of claims paid during the year was 14,975, being an increase of 195

as compared with the previous year.

There was \$57,014.77 in bounties paid to vessels and their crews, and \$97,385 to boats and boat fishermen, making the total bounty paid during the year 1896-7, \$154,389.77.

The number of vessels which received bounty during the year was 862, the total tonnage being 28,551 tons, showing a decrease of 45 vessels and 1,605 tons, as

compared with the previous year.

Bounty was paid on 14,106 boats, and to 23,821 boat fishermen during the year, being an increase of 233 boats, and a decrease of 737 fishermen, as compared with 1895-6.

The bounty was first paid in 1882.

The following table shows the number of claims and fishermen, and the amount of bounty paid each year since 1882.

Year,	No. of claims.	No. of fishermen.	Amount paid.
			\$ cts.
882	11,972	29,932	172,285 47
000	13,086	33,399	130,344 8
884	12,468	31,297	155,718 9
885 886	14,124 $14,900$	33,564 33,523	161,539 3 160,903 5
887	15,416	34,387	163,757 9
888	15,599	34,887	150,185 5
389	17,078	38,343	158,526 5
390	17,959	39,050	158,241 0
391	18,506	38,859	156,891 8
392	14,442	29,064	159,752 1
893	13,635	28,013	158,234 1
394	14,350	29,222	160,066 8
895	14,780	30,808	163,567 9
396	14,975	29,486	154,389 7
Totals	223,290	493,834	2,364,405 9

The bounty was paid each year on the following basis:-

1882, vessels \$2 per ton, one-half to the owner and the other half to the crew. Boats at the rate of \$5 per annum, one-fifth to the owner and four-fifths to the men. 1883, vessels \$2 per ton, and BOATS \$2.50 per man, distributed as in 1882.

1884, vessels \$2 per ton, as in 1882 and 1883.

Boats from	14 to 18 feet keel	\$1	00
do	18 to 25 do	1	50
do	25 feet keel upwards	2	00
And be	at fishermen \$3 each		

1885, 1886 and 1887, vessels, \$2 per ton as in previous years. Boats measuring 13 feet keel having been admitted in 1885, the rates were:-Boats from 13 to 18 feet keel, \$1.00; from 18 to 25 feet keel, \$1.50; from 25 feet keel upwards, \$2.00, and fishermen \$3 each.

1888, vessels \$1.50 per ton, one-half each to owner and crew. Boats, the same as in 1885, 1886 and 1887.

1889, 1890 and 1891, vessels, \$1.50 per ton as in 1888. Boats \$1 each. Boat fishermen \$3.

1892, vessels \$3 per ton, one-half each to owner and crew. Boats \$1 each. Boat fishermen \$3.

1893, vessels \$2.90 per ton, paid as formerly. Boats \$1 each. Boat fishermen \$3. 1894, vessels, \$2.70 per ton, distributed as in previous years. Boats \$1 each. Boat fishermen \$3.

1895, vessels \$2.60 per ton, half each to owner and crew, Boats \$1 each. Boat fishermen \$3.

1896. vessels \$1 per ton, which was paid to the owners, and vessel fishermen \$5 each, clause 5 of the regulations having been amended accordingly. Boats \$1 each, and boat fishermen \$2.50 per man.

Since 1882, 12,280 vessels, totalling a tonnage of 452,016 tons have received the bounty. The total number of vessel fishermen which received bounty is 93,732,

being an average of 8 men per vessel.

The total number of boats to which bounty was paid since 1882 is 210,878, and

the number of fishermen 400,102. Average number of men per boat, 2.

The highest bounty paid per head to vessel fishermen was \$21.75 in 1893; the lowest 83 cents, while the highest to boat fishermen was \$4, the lowest \$2.

The general average paid per head is \$4.79.

GENERAL STATEMENT of Fishing Bounty Claims received and paid for the year 1896.

Province.	County.	Number of Claims received.	Number of Claims rejected.	Number of Claims paid.
The Control of the Co	Annapolis	158 134 442	1 3	158 133 *440
	Colchester Cumberland Digby Guysborough Halifax Inverness	5 373 1,371 1,457 606	1 5 9 1	5 372 1,366 1,448 605
	King's Lunenburg Pictou Queen's Richmond Shelburne	$ \begin{array}{r} 44 \\ 1,162 \\ 38 \\ 225 \\ 1.055 \\ 845 \end{array} $	6 5 6	*45 1,160 38 219 1,050 839
9	Victoria	466 216 8,597	39	*467 *217 8,562
New Brunswick	Charlotte. Gloucester. Kent Northumberland. Restigouche St. John Westmoreland	473 514 108 5 1 22 14	1 38 20	472 476 88 5 1 22
	Totals	1,137	73	1,064
Prince Edward Island	King's	581 433 97	4	581 *441 *98
	Totals.	1,111	4	1,120
Quebec	Bonaventure. Gaspé Rimouski Saguenay	965 2,454 32 915	74 67 1 3	891 *2,391 31 *916
	Totals	4,366	145	4,229
	RECAPITULATION.			
New Brunswick		8,597 1,137 1,111 4,366	39 73 4 145	8,562 1,064 1,120 4,229
	ls	15,211	261	14,975

^{*} Note.—The number of claims paid includes several applications for previous years which explains the difference between claims paid and claims received after deducting those rejected.

DETAILED STATEMENT of Fishing Bounties paid to Vessels in each County for the Year 1896.

Province.	County.	Number of Vessels.	Tonnage.	Average Tonnage.	Number of Men.	Amount paid.
Nova Scotia	Annapolis	6 3 11 3 46 25 65 25 5 164 2 15 71 75 1 36	210 38 188 43 1,341 622 1,504 454 75 11,908 661 2,268 2,172 17 1,876	35 12·66 17·09 14·33 29·15 24·88 23·13 18·16 15 72·61 19 44·06 31·94 28·96 17 52·11	35 7 47 6 346 109 328 122 10 2,032 5 103 480 533 1 440	\$ cts 385 00 73 00 423 00 73 00 3,071 00 1,167 09 3,144 00 1,25 00 22,073 00 4,68 00 4,837 00 4,22 00 4,077 95
New Brunswick	Totals Charlotte	553 51 188	946 2,228	18·55 11·85	4,607 175 589	1,821 00 5,189 88
	Kent Northumberland Restigouche St. John Totals	2 1 8 	24 26 113 3,337	12 26 14 12 	7 5 24 800	59 00 51 00 233 00 7,353 88
Prince Edward Island		12 6 5	350 173 133	29·16 28·83 26·60	59 36 19	645 00 353 00 228 00
	· Totals	23	656	28.52	114	1,226 00
Quebec	Gaspé Rimouski Saguenay	2 1 33	58 23 1,062	29 23 32 18	13 3 128	123 00 38 00 1,816 94
	Totals	36	1,143	31.75	144	1,977 94

RECAPITULATION.

Nova Scotia	$ \begin{array}{c} 250 \\ 23 \end{array} $	23,415	42:34	4,607	46,456 95
New Brunswick.		3,337	13:34	800	7,353 88
Prince Edward Island		656	28:52	114	1,226 00
Quebec.		1,143	31:75	144	1,977 94
Grand Totals	862	28,551	33.12	5,665	57,014 77

DETAILED STATEMENT of Fishing Bounties paid to Boats in each County for the Year 1896.

Province.	County.	Number of Boats.	Number of Men.	Amount paid.	Total Bounty paid to Vessels and Boats in 1896.
*				\$ cts	\$ ets
Nova Scotia	Annapolis. Antigonish Cape Breton Cumberland. Digby Guysborough Halifax Inverness King's Lunenburg Pictou Queen's Richmond Shelburne Victoria Yarmouth	152 130 429 2 326 1,340 1,383 580 40 996: 36 204 979 764 466	233 185 832 4 596 2,164 1,919 1,272 57 1,138 48 316 1,418 1,246 763 263	967 50 777 50 3,338 50 16 00 2,412 00 8,914 00 8,100 50 5,032 00 239 00 4,977 00 204 00 5,125 00 3,135 50 1,101 50	1,352 50 850 50 3,761 50 89 00 5,483 00 10,081 00 11,244 50 6,096 00 267 00 267 00 2,501 00 10,610 00 9,962 00 5,179 45
	Totals	8,008	12,454	51,592 00	98,048 95
New Brunswick	Charlotte. Gloucester Kent Northumberland Restigouche St. John Westmoreland	421 288 88 3	645 719 158 9	2,678 50 2,804 00 641 00 34 50	4,499 50 7,993 88 641 00 93 50 51 00 324 00
	Totals	814	1,553	6,249 00	13,602 88
Prince Edward Island	King's Prince Queen's	567 435 93	923 956 247	3,797 50 3,766 00 956 00	4,442 50 4,119 00 1,184 00
	Totals	1,095	2,126	8,519 50	10,141 50
Quebec	Bonaventure Gaspé Rimouski Saguenay	891 2,389 30 879	1,511 4,667 43 1,467	6,179 50 18,719 00 180 50 5,935 50	6,179 50 18,842 00 218 50 7,752 44
	Totals	4,189	7,688	31,014 50	32,992 44
	RECAPITU	LATION.			
New Brunswick		8,008 814 1,095 4,189	12,454 1,553 2,126 7,688	51,592 00 6,249 00 8,519 50 31,015 50	98,048 95 13,602 88 10,141 50 32,992 44
		14,106	23,821	97,375 00	154,389 77

(1) Total number of Fishing Bounty Claims received and paid by the Department of Marine and Fisheries. COMPARATIVE STATEMENT by Provinces for the Years 1882 to 1896, inclusive, showing:-

XX	Nova Scotia.	SCOTIA.	New Brunswick.	NSWICK.	PRINCE EDWARD ISLAND.	ARD ISLAND.	. Quebec.	EC.	Total.	AL.
x kak.	Received.	Paid.	Received.	Pail.	Received.	Paid.	Received.	Paid.	Received.	1 હોલે.
1882	6,730	6,613	1,257	1,142	1,169	1,100	3,162	3,117	12,318	11,972
1883.	7,171	7,076	1,693	1,579	1,138	1,106	3,602	3,325	13,604	13,086
1884	7,007	6,930	1,252	1,224	923	885	3,470	3,429	12,652	12,468
1885	7,646	7,599	1,609	1,588	1,117	1,025	3,943	3,912	14,315	14,124
1886	7,639	7,702	1,767	1,763	1,131	1,080	4,275	4,355	14,812	14,900
1887	8,262	8,227	1,975	1,958	1,201	1,126	4,138	4,105	15,576	15,416
1888.	8,481	8,429	2,065	2,026	1,153	834	4,328	4,310	16,027	15,599
1889	8,816	8,523	2,428	2,392	1,211	1,511	4,664	4,652	17,119	17,078
1890	9,337	9,429	2,522	2,469	1,352	1,257	4,860	4,804	18,071	17,959
1891	10,242	10,063	2,831	2,084	1,482	1,446	5,108	4,913	19,663	18,506
1892	8,272	8,186	1,067	1,001	1,065	1,051	4,425	4,204	14,829	14,442
1893	7,926	7,844	296	881	1,027	1,012	4,059	3,898	13,979	13,635
1894	8,640	8,600	925	911	983	896	3,948	3,876	14,496	14,350
1895	8,835	8,825	626	975	1,009	1,025	3,904	3,955	14,727	14,780
1896	8,597	8,562	1,137	1,064	1,111	1,120	4,366	4,229	15,211	14,975
	198 601	199 608	034 474	99 087		16 541	69 959	61 084	002 300	006 866

(2) NUMBER of vessels, tonnage and number of men which received Bounty in each year.

20.02	No	Nova Scotia.	Α,	NEW	NEW BRUNSWICK.	ICK.	PRINCE	PRINCE EDWARD ISLAND.	ISLAND,		QUEBEC.			TOTAL.	
	No. of Vessels.	Ton- nage.	No. of Men.	No. of Vessels.	Ton- nage.	No. of Men.	No. of Vessels.	Ton- nage.	No. of Men.	No. of Vessels.	Ton- nage.	No. of Men.	No. of Vessels.	Ton- nage.	No. of Men.
1882	588	22,841	5,343	120	2,171	531	15	389	74	63	2,210	538	786	27,611	6,486
1883	200	29,788	6,238	126	2,102	496	16	450	99	65	2,236	443	904	34,576	7,243
1884	200	29,828	6,327	139	2,289	260	16	582	92	56	1,965	382	911	34,664	7,361
1885	629	27,709	5,897	128	2,120	496	19	262	113	55	1,791	317	831	32,217	6,823
1886	562	25,375	5,023	145	2,628	520	32	1,071	215	52	1,730	320	791	30,804	6,077
1887	566	24,520	4,900	154	2,889	563	300	1,677	338	54	1,883	334	812	30,969	6,135
1888.	589	26,008	5,450	150	2,545	544	37	1,245	249	51	1,842	388	827	31,640	6,631
1889	597	27,123	5,684	153	2,590	565	35	1,274	239	48	1,729	330	833	32,716	6,818
1890	240	23,955	4,935	133	2,129	447	32	1,002	203	34	1,182	220	739	28,268	5,805
1891	527	22,780	4,618	124	2,051	411	27	778	155	27	924	168	705	26,533	5,352
1802	202	22,279	4,611	108	1,683	343	30	983	139	23	803	159	899	25,748	5,252
1803	536	23,195	4,780	210	2,922	634	27	910	151	32	952	179	805	27,979	5,744
1894.	602	24,735	5,077	238	3,189	721	21	594	114	38	1,066	178	668	29,584	6,090
1895	603	25,018	5,184	238	3,107	764	27	692	129	39	1,262	173	206	30,156	6,250
1896.	553	23,415	4,607	250	3,337	800	23	929	114	36	, 1,143	144	862	28,551	5,665
Totals	8,799	378,569	78,673	2,416	37,752	8,395	395	12,977	2,391	670	22,718	4,273	12,280	452,016	93,732
															1

(3) Number of Boats and boat fishermen which received Bounty in each year.

	Nova S	SCOTIA.	NEW BRU	UNSWICK.	P. E. I	SLAND.	Que	BEC.	Тот	ÀL.
YEAR.	No. of Boats.	No. of Men.	No. of Boats.	No. of Men.	No. of Boats.	No. of Men.	No. of Boats.	No. of Men.	No. of Boats.	No. of Men.
1882	6,043 6,458 6,257 6,970 7,140 7,662 7,840 7,926 8,886 9,525 7,679 7,308 7,956 8,222 8,008	12,130 13,553 12,669 13,396 13,351 13,997 14,115 14,118 15,738 16,552 12,307 11,748 12,899 13,106 12,454	1,024 1,453 1,086 1,460 1,618 1,804 1,876 2,237 2,324 1,928 893 671 661 737 814	2,530 3,309 2,505 3,254 3,567 3,994 4,148 5,032 5,242 4,126 1,765 1,314 1,281 1,434 1,553	1,087 1,098 869 1,006 1,048 1,088 797 1,475 1,192 1,383 1,021 985 913 998 1,095	3,070 3,106 2,346 2,606 2,547 2,711 2,141 3,568 3,024 3,427 2,047 1,962 1,813 2,141 2,126	3,071 3,266 3,344 3,857 4,303 4,051 4,259 4,602 4,766 4,865 4,181 3,866 3,821 3,916 4,189	5,716 6,188 6,416 7,485 7,981 7,550 7,852 8,807 9,241 9,402 7,693 7,245 7,139 7,877 7,688	11,225 12,275 11,556 13,293 14,109 14,605 14,772 16,240 17,168 17,701 13,774 12,830 13,351 13,873 14,106	23,446 26,156 23,936 26,741 27,446 28,252 28,256 31,525 33,507 23,812 22,269 23,132 24,558 23,821
Totals	113,880	202,133	20,586	45,054	16,055	38,635	60,357	114,280	210,878	400,10

(4) Total Number of men receiving Bounty in each year.

Year.	Nova Scotia.	NEW BRUNSWICK	P. E. ISLAND.	QUEBEC.	TOTAL.
I BAR.	No. of Men.	No. of Men.	No. of Men.	No. of Men.	TOTAL.
1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896	17,473 19,791 18,996 19,293 18,373 18,897 19,565 19,802 20,673 21,170 16,918 16,528 17,976 18,290 17,061	3,061 3,805 3,065 3,750 4,087 4,557 4,557 4,692 5,597 5,689 4,537 2,108 1,948 2,002 2,198 2,353	3,144 3,172 2,488 2,719 2,762 3,049 2,390 3,807 3,227 3,582 2,186 2,113 1,927 2,270 2,240	6,254 6,631 6,798 7,802 8,301 7,884 8,240 9,137 9,461 9,570 7,852 7,424 7,317 8,050 7,832	29, 932 33, 399 31, 297 33, 564 33, 525 34, 387 34, 387 38, 345 39, 056 38, 855 29, 064 28, 013 29, 222 30, 888 29, 486
Totals	280,806	53,449	41,026	118,553	493,834

(5) Total annual payments of Fishing Bounty.

Year.	Nova Scotia.	New Brunswick.	P. E. Island.	Quebec.	Total.
	8 ets.	8 cts.	S ets.	8 ets.	\$ ets.
1882	106,098 72	16,997 00	16,137 00	33,052 75	172,285 47
1883	89,432 50	12,395 20	8,577 14	19,940 01	130,344 85
1884	104,934 09	13,576 00	9,203 96	28,004 93	155,718 98
1885	103,999 73	15,908 25	10,166 65	31,464 76	161,539 39
1886	98,789 54	17,894 57	10,935 87	33,283 61	160,903 59
1887	99,622 03	19,699 65	12,528 51	31,907 73	163,757 92
1888	89,778 90	18,454 92	9,092 96	32,858 75	150,185 53
1889	90,142 51	21,026 79	13,994 53	33,362 71	158,526 54
1890	91,235 64	21,108 33	11,686 32	34,210 72	158,241 03
1891	92,377 42	17,235 96	12,771 30	34,507 17	156,891 85
1892	109,410 39	10,864 61	9,782 79	29,694 35	159,752 14
1893	108,060 67	12,524 09	9,328 62	28,320 72	158,234 10
1894	111,460 03	12,690 80	7,875 79	28,040 18	160,066 80
1895	110,765 27	12,919 32	9,285 13	30,598 27	163,567 99
1896	98,048 95	13,602 88	10,141 50	32,992 44	154,389 77
Totals	1,504,156 39	236 898 37	161,508 07	462,239 10	2,364,405 93

List of Vessels which received Fishing Bounty for the Year 1896.

PROVINCE OF NOVA SCOTIA.

ANNAPOLIS COUNTY.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner. or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
72978 94700 94706 94693 94732 83253	Annie Coggins Franklin S Schenck George J. Tarr John H. Kennedy. Only Son Rescue	do	44	David Hayden	do Victoria Beach Thornville Margaretsville	5 14 3 2	\$ cts. 51 00 69 00 131 00 69 00 23 00 42 00
		ANTIG	ONI	SH COUNTY.			
96787 103542 90642	France Brown	do	17	Lawrence Hylan Wm. Brow John Brow	do		21 00- 32 00 20 00
		CUMBE	RL	AND COUNTY.			
83261 75614 103022	Economist Fawn May	Digby do	14 17 12	James E. Ogilviedo Robert Spicer	Parrsboro'do Spencer's Island	2 3 1	24 00 32 00 17 00
		CAPE I	BRE	TON COUNTY.			
100389 100372 85381 75571 100383 74039 80974 100380 92600 84431 96792	Mary Ann Mary D. Merit Mayflower	do do do Halifax	18	Jno. Farreil	Little Bras d'Or. Louisburg Little Bras d'Or. do do Main-à-Dieu Little Bras d'Or. do Bateston	3 6 6 3 4 2 7 4 5	33 00 26 00 49 00 46 00 25 00 38 00 29 00 62 00 36 00
		DIO	зву	COUNTY.			
94696 94708 88598 83258 83431 90660 94704 94698 74331 75711 90662 94707 85683 77740 75757	Ann Eliza Alph. B. Parker Alfred. Acadian Alice May Charles Haskell Carrie H Condor Dove Edward A. Horton Ernest F. Norwood Edith L Elmer	do St. John, N.B. Digby Weymouth Yarmouth Digby do Yarmouth Co Digby do Digby do	$ \begin{array}{c c} 32 \\ 18 \\ 67 \\ 20 \\ 11 \\ 20 \\ 67 \\ 79 \\ 16 \\ \end{array} $	Howard Titus Joseph Ossinger Joseph E. Snow do R. W. Ford	do Tiverton. Freeport do Westport. Digby Westport. do Tiverton Digby do Westport.	8 12 9 10 8 15 7 3 7 9 12 4	145 00 102 00 99 00 74 00 82 00 58 00 142 00 55 00 26 00 112 00 139 00 45 00 47 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

DIGBY COUNTY—Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of crew paid.	Amount of Bounty paid.
100535 74329 80798 77963 83260 100537 90436 100544 100064 83461 80694 8088 80881 85687 100487 85682 80794 100593 94825 100503 83132 85558 100609 38036 75726 94094 100543 75595 88264	Fairplay Fairy Queen Freddie G. Freeman Colgate. Gazelle Gertie H. Genesta. Helen Maud Josie L. Day Jennie C. Letitia Lena May Lora T. Mabel Mabel B. Malapert Minnie C. New Home On Time Rowena Restless S. A. Crowell Swam Twilight Thrush Utah and Eunice W. Parnell O'Hara West Wind William C. Allan Walter J. Clarke	Yarmouth. Digby. St. Andrews, N. B Digby. do Barrington Digby. St. John, N. B. Digby do St. Andrews, N. B do Digby do O Digby do do do do Veymouth do Digby. do Varmouth. Shelburne Digby Yarmouth Digby do O Yarmouth Digby	57 23 18 31 19 10 25 23	Casimir R. Comeau Wallace Coggins. George Gower. Frank Morrell. D. & O. Sproul John Outhouse. George Denton Charles McDormand. Charles Hicks. D. & O. Sproul Charles Hicks. Peter H. Belliveau Freeman Small Joseph Thurber. Wm. M. Denton Chas. E. Finigan. E. C. Bowers. Charles Bailey. Moses Thibodeau. Henry Glaven. Warren Snow. Charles Shaw. Wallace Gower. Milton Haines. Benjamin Taylor Frank S. Lent. Edwin Haines. Edgar Post. Syda & Cousins. Thos. P. Saulnier Arthur Porter.	Freeport. do Digby. do Meteghan	4 7 10 2 7 11 8 9 2 6 4 8 7 10 12 9 9 9 9 9 10 10 10 10 10 10 10 10 10 10 10 10 10	\$ cts. 16 00 33 00 53 00 76 00 30 00 67 00 87 00 66 00 26 00 30 00 58 00 48 00 53 00 53 00 65 00 65 00 65 00 64 00 25 00 61 00 25 00 61 00 27 00 50 00
		GUYSBO	ORO	UGH COUNTY.			
TOOTAT	Golden Seal	Arichat. Pt. Hawkesbury do Canso. Arichat Halifax. do do Guysborough. Halifax. Pt. Hawkesbury Halifax. Port Medway. Pt. Hawkesbury Halifax. Canso. Lunenburg Halifax. do Pt. Hawkesbury Halifax. Canso. Lunenburg Halifax. Canso. Lunenburg Halifax. Canso.	38 55 55 12 36 17 32 23 21 32 27 23 48 20 12 22 10 12 17 26 12 17 26 14 14 14 14 14 14 14 14 14 14 14 14 14	Wm. J. England. Thos. Munroe. Jno. O'Neil. Thos H. Peeples Samuel Crant. Wm. S. Peart. Luke Mannett. Hubert Boudrot Daniel Fraser. Joseph Fougère, jr. Edwd. B. Pelrine. Thomas England Chas. Hansen. Wm. Harris. Jno. F. Reeves. Wm. Doiron. Perry Munroe. Wm. L. Dort. Jos. O'Neil Hubert Richard. Martin Meagher Wm. P. Power. Jno. Consins. Reuben H. Munroe. James Meagher.	White Head Auld's Cove Pirate Harbour, White Head Guysborough Larry's River Port Felix do Middle Melford, Cook's Cove Halifax, Mulgrave Stn. Charlo's Cove. White Head Sandy Cove. Auld's Cove Charlo's Cove. Charlo's Cove. Charlo's Cove. Charlo's Cove. White Head White Head Canso White Head	347365545834245335634	54 00 25 00 58 00 90 00 27 00 66 00 42 00 57 00 43 00 46 00 72 00 43 00 43 00 58 00 47 00 25 00 27 00 32 00 46 00 49 00 29 00

^{*} Crew not entitled to bounty.

LIST of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con. HALIFAX COUNTY.

100221 Baleka	Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
Thomas Brophy. Lower Prospect. 3 26 94661 L. C. Tough. do 12 Jno. E. Tough. Pennant. 3 27 94665 Lydia A. Mason do 39 Ernest Mason et al. Tangier. 7 74 75605 Little Annie. do 27 Mathew Lynch, jr Ferguson Cove. 6 57 69105 Little Annie. do 20 Minnie M. do 10 Jno. P. Martin. Ship Harbour. 4 30 3103547 Morning Glory do 11 Wm. E. Murphy. Murphy Cove. 8 11 147 147 147 148 14	108537 94662 90496 73969 103535 85663 100220 96785 92564 90726 90481 85738 97046 100259 100247 85644 80996 100248 90489 103544 88220 96782 83306 100216 94661 94661 94661 94661 94661 94661 100246 100254 100248 85664 100248 100248 100247 100254 80841 10027 100254 80841 10027 100254 80841 10027 100254 80841 10027 100254 80841 10047 100257 96806 100566 77787 74087 74087 74087 74087 74087 75759 64869 100218	Bon Accord. Bessie Florence. Black Prince Bertha E Cora Lee Daring. E. J. Smith. Eva M. B Evangeline Ellen Maud. Ella D Emma F Fredona. Florence G Fairy Queen Flora. Gertie Belle Golden Dawn. Green Leaf. Grace D Grandee. Glide I.O.N.A. Katie M. L. C. Tough Lydia A. Mason Louis Luby. Little Annie Lady of the Lake Minnie M. Morning Glory Maggie May. Maggie E. C. Mariner Mary Bell Mary E May Myrtle M. Gray. Nina Nellie D Neva Oracle Primrose Pansy R. Beatrice Rising Dawn Rising Sun Rob S Rescue Sea Gem Seaflee Sarah M. W T. W. Smith.	do d	31 12 12 18 21 18 21 14 49 18 16 23 13 12 15 11 42 15 46 44 10 10 11 12 20 56 10 11 11 12 11 18 14 32 11 11 18 14 32 11 11 18 18 32 11 11 18 18 32 30 30 30 30 30 31 12 31 12 31 31 12 31 31 31 31 31 31 31 31 31 31 31 31 31	James W. Smth. Chas. W. Twohig. J. W. Slaunwhite. A. E. Boutilier Robt. M. Freehill. Chas. Slaunwhite, sr W. McC. Boak George Bonang et al. Henry Young. Wm. Fleming, 1st. Archiblald Darrach, sr. Amos Graves. Edward Sturmy. Caleb Gray Geo. H. Nickerson Patrick Scallion James Yorke. Edw. Conrod, M. J. Julien et al. J. Marraytt Jno. P. Slaumwhite Sydney H. Garrison. Andrew Sullivan. Thomas Brophy. Jno. E. Tough. Ernest Mason et al. Wm. J. Lapierre et al. Mathew Lynch, jr Richard Christian. Jno. P. Martin Wm. E. Murphy. Jeremiah Fillis et al. Geo. S. Covey J. H. Henley Jno. A. McDonald Andrew Twohig Wm. Murphy. John Fink Eph. Marryatt Wm. Murphy. John Fink Eph. Marryatt Lym. Geo. Snare Isaac Corney Fredk. Boutilier Geo. Julien Geo. H. Marryatt. Wm. Connors. Mark Harpell. James Stevens Geo. Connor Edward Hayes. Hezekiah Wambolt	do Pennant Terence Bay Ingram River Halifax Terence Bay Halifax Terence Bay Halifax W. Chezzetcook. East Petpiswick. Ketch Harbour Herring Cove East Dover Spry Bay Sambro do Herring Cove Eastern Passage. E. Chezzetcook. W. Chezzetcook. W. Chezzetcook Pennant Terence Bay Peggy's Cove Herring Cove Lower Prospect. Pennant Tangier W. Chezzetcook. Ferguson Cove. Prospect. Ship Harbour Murphy's Cove. W. Chezzetcook Harrigan Cove. Prospect Ship Harbour Murphy's Cove. W. Chezzetcook Harrigan Cove. Pennant Sambro Pennant Sambro Pennant Cove. Pennant Halifax Pennant do West Dover. Indian Harbour West Jeddore. Porter's Passage. Spry Bay Herring Cove Indian Harbour Mest Jeddore. Porter's Passage. Spry Bay Herring Cove Indian Harbour	7 3 3 4 4 * * 2 4 10 * 4 8 8 3 2 2 2 10 3 14 14 3 3 1 18 8 3 3 7 7 13 6 5 5 4 4 8 8 7 7 10 5 5 3 3 5 5 5 3 6 6 4 7 7 10 5 5 4	\$ cts. 66 00 27 00 27 00 27 00 28 00 38 00 21 00 49 00 28 00 31 09 95 00 23 00 23 00 24 00 25 00 22 00 25 00 21 00 26 00 27 00 27 00 26 00 27 00 27 00 27 00 27 00 27 00 27 00 27 00 27 00 27 00 27 00 28 00 29 00 21 00 30 00 21 00 30 00 21 00 27 00 27 00 27 00 27 00 29 00 29 00 21 00 38 00 29 00 21 00 38 00 38 00 38 00 38 00 38 00 38 00 39 00 39 00 39 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00 30 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con. HALIFAX COUNTY—Concluded.

Official Number.	Name of Vessel.	Port of Registy.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
0						F.1	
							\$ cts.
*							
90485	Violet West		36	T. A. Gaetz, et al	Seaforth		91 00
100260	Violet	do	12	J. H. Smith	Sambro	3	27 00 93 00
96781	Venture	do	43 65	E. V. Dempsey James Julien, et al	W Chargeteeolz	$\begin{array}{ c c }\hline 10\\18\\ \end{array}$	155 00
100226	Willie H. Crosby Willetta	do	12	Joseph Grav	Sambro	3	27 00
$92578 \\ 61904$	Water Lily	do	14	Isaac Morash	West Dover	2	24 00
85378	Zephyr	do	16	Robt. Shaunwhite	Terence Bay	5	41 00
		INVE	RNE	ESS COUNTY.			
W1000	A 3.	Charlottatawn					
71302		Charlotte t o w n, P.E.I	10	Patrick Cormier	Cheticamp Point	5	35 00
103313	Catherine	Pt. Hawkesbury.	10	Severin Chiasson	Eastern Harbour		30 00
96778	Campania	do	11	C. Robin, Collas & Co.			04 00
83244	Claribel	Charlotte to wn,		Ltd	do	4	31 00
		P.E.I	19	Chas. Doucet	do Hanb'r	5 6	44 00 48 00
85392	Colibri		18	James Britt	Pt Hawkeshury	9	94 00
96767	Dove	do do	49	Magloire Poirier	Cheticamp Point		31 00
96768 103317	Elizabeth Ann	do	11	S. Belfontaine & P. Des-	Onto the same		
109911	rlying Star	40		veaux	Eastern Harbour		31 00
96774	Florence	do	11	Thomas Poirier	do	4	31 00
103311	Henry L. Philips	do	78	J. C. Skinner	Port Hastings		118 00 38 00
103312	Laura	do	13	Jos. Aucoin Ubalde Bourgeois	Eastern Harbour		30 00
103316	Laura	do	10	Placide Boudrot	do	4 1	31 00
96775 103318	Little Heir	do	19	Eusèbez Chiasson		5	44 00
103315	Lillie	do	12	Fidèle Chiasson	do	4	32 00
103314	Mary	do	10	Polite Aucoin			30 00
96769	Mary Lambert	do	11	Luc Chiasson		6	31 00 50 00
69125	May Flower	Halifax	20	Hyacinthe Chiasson C. Robin, Collas & Co.,		0	50 00
96779	Majestic	Pt. Hawkesbury.	12	Ltd		4	32 00
96771	Marie	do	10	Xavier Roach	do		30 00
96777	Marie Joseph	,	11	Victor Roach	do	1 4 1	31 00
96770	O. L. B	do	12	Gabriel Boudrot	do	9	32 00 99 00
74332	Proditor	Halifax	54	Placide Leblanc Michael Ramard	Fastorn Harbour	4	30 00
96773	Virgin	Pt. Hawkesbury.	10	John Roach	Cheticamp Point	4	31 00
96776	Willie B	do	11	John Rowen	1		
		KI	NG'S	S COUNTY.			
-			1.	A TO CO	Harbourville	*	14 00
80093		St. John, N.B.		A. E. Spicer.	TT 132 TT 1		12 00
77732			12	Joseph Parker Wm. E. Hayes	Canada Creek	2	22 00
103023 100744		Parrsboro' Windsor		Larongo Curry	Harbourville	4	38 00
94756		St. John, N.B.			Hall's Harbour.	4	39 00
* C	rew not entitled to be	ounty.	1			, ,	
0.	10W 1100 chieffed to se	LUNE	NBU	JRG COUNTY.		, i	-
40.77	L T 37 37	Tunonbung	80	Albert McKean	Pleasantville	10	130 00
103741	A. J. McKean		16	C. U. Mader	Manone Day	12	41 00
	Annie.	1.	26	T D Zanolron	do	0 1	41 00 150 00
103507			00	A W Copred	Park's Greek	14	150 00
103507 100846					I Conguerall Kank		
103507	Avis Athlon	do	80				150 00
103507 100846 103745 103495 94790	Avis	do do	80	J. Norman Rafuse	Lower LaHave.	14	150 00 150 00
103507 100846 103745 103495 94790 94783	AvisAthlonAbanaAlaska	do do do	80 80 80	J. Norman Ramse James Romkey Solomon Smith. Freeman Anderson	Lower LaHave.	14 14 14	150 00 150 00 150 00
103507 100846 103745 103495 94790	Avis	do do do do	80 80 80 80	J. Norman Ranuse J. James Romkeyl Solomon Smith Freeman Anderson Alex. Knickle.	Lower LaHave.	14 14 14 14	150 00 150 00

LIST of Vessels which received Fishing Bounty,—Nova Scotia—Con. LUNENBURG COUNTY—Continued.

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Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
			Į.				\$ cts.
94778	Argosy	Lunenburg	. 80	Charles Smith	Lunenhurg	13	145 00
100839	Acalia	do		Nathan Silver	do	4	54 00
103503	B. G. Anderson	do	0.3	Thomas Hamm	do	14	150 00
100838 103430	Blanche A. Colp Beluga	4	000		Mahone Bay	14	150 00
94647	Bonus	do	0.0	A. V. Conrad George Creasor	Ritcey's Cove	14	$150 00 \\ 140 00$
94651	Bessie A	do		Murdoch McGregor	do	14	150 00
100163	Beauty	do		J. Norman Rafuse	Conquerall Bank	9	110 00
103501 100848	Britannia	7	200	James Romkey	Lower La Have.	14	150 00
100571	Britannia	do	00	Lambert Lohnes Charles Smith	Middle La Have		114 00
96823	Burnham H	do	0.0	Benjamin Morash	do	1.4 14	150 00 $150 00$
94782	Bona Fides	do	80	J. Joseph Rudolph	do	14	150 00
103421 96828	Blenheim	do	100	Charles Smith	do	14	150 00
94645	C. A. Chisholm	do	000	Charles SilverAbraham Ernest	do	14 12	150 00 $140 00$
94658	C. A. Ernst	do		do	do	10	107 00
100159 103427	C. U. Mader	do	0.0	C. U. Mader	do	14	150 00
90824	Cymbrian	1		Dean Fralick	Pleasantville	11	115 00
103502	Carlraine	do	100	A. V. Conrad. Alvin Himmelman	Ritcey's Cove	14 14	150 00 $150 00$
100579	Citizen	do	000	Murdoch McGregor	do	14	150 00
97081 97084	Carrie	do	0.0	Jno. M. Ritcev	do	14	150 00
100834	Calla Lily	do		Edmnnd Nirtle W. N. Reinhardt	La Have	11	117 00
100823	Carrie	do	1 00	W. N. Reinhardt Adnah Burns	Dayspring	$\begin{array}{c c} 14 \\ 12 \end{array}$	150 00 $120 00$
90875	Capio	do,		G./N. C. Hawkins	Lunenburg	11	127 00
103415 90869	Clarence Smith Clara E. Mason	1		G. Abram Smith	do	14	150 00
103419	Cordova	do	00	David Smith. Charles Smith	do	$\frac{12}{12}$	$140 00 \\ 140 00$
88355	D. A. Mader	do	80	C. U. Mader	Mahone Bay	12	140 00
90834 100841	Diego Dora.	Port Medway	28	Harris Conrad	Cherry Hill	7	63 00
97089	Dictator	do		Wm. Acker S. Watson Oxner	3	12 14	140 00 150 00
88356	Energy	do		C. U. Mader	Mahone Bay	12	140 00
103424 94659	Elva M	1		do	do	17	165 00
100827	Enterprise	do	80 52	Wm. Cleversey	Pleasantville	13	145 00
94960	Eureka	do	80	Reuben Smith.	Ritcev's Cove	8 14	$92\ 00$ $150\ 00$
96821	Edgar T. Richard	do,	55	Elias Richard	Getson's Cave.	12	115 00
103506 100151	Ebro Erminie	do	75	J. Wm. Young	Lunenburg	10	125 00
103198	F. B. Wade	do	80	Wm. Young. L. B. Currie	Dublin Shore	14	150 00 150 00
100481	Florence	do	29	Herbert Young	Indian Point	7	64 00
103743 103429	Flo. F. Mader	do	80	C. U. Mader	Mahone Bay	14	150 00
92638	Fern Florence M	do	70 80		La Have	12	130 00
90582	G. A. Smith	do	80	Jno. M. Ritcey	Lunenburg Ritcey's Cove	13 12	$145 00 \\ 140 00$
103411	Genevieve	do	80	Abraham Ernest	Mahone Bay	14	150 00
103505 97088	Gladys May Glendale	do	80	Adam Selig Charles Bell	Vogler's Cove	16	160 00
100488	Gurnet	do	38 56	Alvin Creaser.	Dublin Shore	5	63 00
90862	Grenada	do	80	Reuber Romkey	Lower La Have	10 14	$106 00 \\ 150 00$
100825 100850	Georgina	do	34	James Bell	Getson's Cove	6	64 00
100480	GraceGallant	do	. 80 57	Daniel Getson	do	14	150 00
97083	Garland	do	51	Jno. D. Sperry.	Petite Rivière	$\begin{vmatrix} 12 \\ 7 \end{vmatrix}$	117 00 86 00
100478 96836	Gladioia	do	52	Kenneth Silver	Dayspring	10	102 00
94773	Gleaner	do	80 80	Wm. C. Acker	Lunenburg	11	135 00
100576	Glad Tidings	do	80	J. Wm. Young.	do	14 14	150 00 150 00
90825	Henry N. Batchelder	Port Medway	80	Sam'l. E. Teel	Vogler's Cove.	14	150 00
103744 100569	Harry Smith Howard Young	do	80	J. II. WHSOH	Lunenburg	14	150 00
	Tours	40	00	James Young	do	14	150 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

LUNENBURG COUNTY—Continued.

Official Number.	Name of Vessel.						ri.
Offici	Traine of vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
100490 96837 96830 94785 100164 100837 94654 103491 94789 103414 59475 103202 96833 94780 94788 83316 103496 103496 103418 96827 100830 103418 96827 100830 103418 97052 100844 83173 103426 103426 103510 103418 97052 100849 90823 96840 104162 103509 94772 94775 92632 100574 103416 97100 94777 100153 92640 94966 100485 90827 92636	Irene M. B. Irvin G. J. A. Silver. J. C. Schwartz. J. H. Ernst. J. M. Young J. W. Celdert. Jennie May. Joseph McGill. Jeanie Myrtle. Jessen L. B. Currie. L. E. Young Lawrence. Laura C. Zwicker. Lottie. Loreana Maud. Leopold Lorraine C Leader Laura M. Knock Latcna Luetta M. J. Crosby Martello Minnie Maud Mystic Tie Maggie Smith Majestic Melbourne Merl M. Parks Miletus May Flower Mischief Maritime Magie Maggie E. Z. Molega Malabar Monarch Melrose Minnie J. Smith Maggie M. W. Maurice C. Geldert Milo Minerva Nightingale Nyanza Nonpareil	do d	666 80 80 80 80 80 80 80 80 80 80 80 80 80	Eli Ernst, Freeman Spindler. Chas. L. Silver. Chas. Hewitt S. Watson Oxner. Wm. Young. Jas. W. Geldert. Martin Westhaver Gabriel Himmelman Murdoch McGregor J. Norman Rafuse Lauchlin B. Currie Benj. Anderson Abraham Ernst. do Sam'l. E. Teel. David Ritcey. Sam'l. Ritcey, Jr. Amiel Corkum. Alex. Kinckle. Allan R. Morash S. Watson Oxner. David Smith Charles Rafuse. Abraham Ernst. J. S. Wolfe. J. N. Rafuse. Jno. M. Ritcey. Reuben Ritcey. Eber Gerhardt. James Wamback. Jno. Shankle. Robt. Dawson T. A Wilson Francis Himmelman Jno. D. Sperry. Em. Sellers. Benj. Anderson R. H. Griffiths. Allan R. Morash do Wm. C. Smith J. H. Wilson Jno. B. Young. J. Wm. Young Wm. C. Acker. McKinnon Westhaver Wallace Haughn Elias Walters Jno. C. L. Mader. C. U. Mader.	Mahone Bay Middle South Lunenburg do do do do Martin's Brook Middle South Riteey's Cove Conquerall Bank West Dublin Lunenburg Mahone Bay do Vogler's Cove do LaHave Lunenburg do do do do do LaHave Mahone Bay West Dublin Conquerall Riteey's Cove do LaHave do	12 14 14 14 14 14 14 14 16 9 14 16 13 12 14	\$ cts. 126 00 150 00
94779 103499 94641 85562 94786 100157 100486 94774 100483	Nova Zembla O. P. Silver Olivette Ovanda Oresa Ontario Orinoco Pandora Puritan Puma Panama	do	80 80 80 14 80 56 53 80 58 80	C. U. Mader. Chas. L. Silver James Creaser, Jr. Jeffrey Publicover. Alex. Kinckle Benj. C. Smith. Wm. Westhaver Abraham Cook. Theophilus Creaser Simon Pentz. Henry Adams S. W. Oxner.	Ritcey's Cove Getson's Cove Lunenburg do do Corkum's Island. Ritcey's Cove Getson's Cove Lunenburg	12 14 14 12 4 14 12 12 12 14 13 14 10	150 00 150 00 140 00 34 00 150 00 116 00 113 00 123 00 150 00 130 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

LUNENBURG COUNTY—Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
100473 100572 96834 100165 88349 94962 94787 90868 100471 103500 94657 92623 100575 103742 103417 97098 69200 100821 94776 103504 94956 83164 94967 96829 100152 100842	Roving Bird. Rapture Rowena Robert F. Mason Show Queen Senovar Stella A Samoa. Sadie Secret St. Helena. T. W. Langille Torridon Tyler. Unique Uruguay Urania Vesta Venus Volunteer Viking Venezuela Valiant. White Cloud. Westeria Werra W. H. Walters Yucatan	Lunenburg. do do do do do do do do do d	80 80 80 80 80 80 71 80 80 80 80 80 80 80 80 80 80 80 80 80	Joseph Langille	La Have. Lunenburg Martin's River. Ritcey's Cove Lunenburg do do do Ritcey's Cove Lunenburg Mahcne Bay. Ritcey's Cove Lunenburg Chester Indian Point. Ritcey's Cove La Have. Middle La Have Lunenburg Mahone Bay Lunenburg do	12 14 12 12 13 14 13 14 14 14 14 14 14 14 14 12 13 14 14 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	\$ cts. 44 00 117 00 111 00 127 00 140 00 145 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 150 00 145 00 150 00 145 00 150 00 140 00 150 00 150 00 150 00
83134 38510		Lunenburg Pictou		Johnston Rhynard Geo. Rivers		2 3	25 00 38 00
		QUE	EN'	s county.			
103205 90844 85564 85478 103191 83310 94833 103194 61916 90832 103199 83495 97041 94953	Armada Bessie Williams Glenora Jennie B Myosotis News Boy. Oressa Only Son Ronald H. C Startle Trilby Utopia. W. H. Smith	Guysborough Barrington Liverpool do Port Medway St. Andrews,NB Liverpool do Port Medway Liverpool do do do do do	10 16 55 11 12 80 43	Andrew McNutt L. B. Cohoon Abram W. Hendry James C. Inness Wm. Vogler Edwin Morine Alex. Shankle Winot Arnold L. B. Cohoon Albert Wagner Wm. Wigelsworth James C. Inness Willard Godfrey Abram W. Hendry	Port Medway Liverpool do Port Jolly Port Medway Port Matoon. do Liverpool Port Medway Port Matoon. Liverpool. do Brooklyn	5 4 3 14 4 2 9 7	67 00 55 00 92 00 156 00 33 00 150 00 31 00 31 00 22 00 125 00 78 00 155 00

^{*}Crew not entitled to bounty.

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con. RICHMOND COUNTY.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
							\$ cts.
69143 77544	Arequipa	Arichat	36 42	Philip Gruchy	D'Escousse	7	$71 00 \\ 97 00$
88456	Alice May	do	39	do	do	10	89 00
36474	Alexander Fraser	Lunenburg	32	J. Shannon and M. J.	do	10	82 00
38501	B. Weir & Co	Arienat'	25	White	Basin Kiver In-	4	45 00
35996	Blue Bell	do	25	White	Martinique	3	40 00
$94680 \\ 75561$	Bonnie Glen		17 41	Aavier Marchaud	Petit de Grat	4	37 00
54156	Boreas British Lady		19	John ColfordAlbert Joyce	Riv. Inhabitants.	7 2	76 00 29 00
72061	C. P. M	do	22	Alex. Burke	River Bourgeois.	6	52 00
88459 74100	Caroline		12 23	Jno. B. Girroir	West Arichat	3 7	27 00 58 00
103452	Charlotte		73	David Walker	Basin River In-	4	50 00
79059	Damanuina	do	E0	Charles Tables	habitants		103 00
$72052 \\ 72058$	Dayspring Daisy		52 34	Charles Leblanc Placide Richard	Port Royal Arichat	3	$\frac{72\ 00}{49\ 00}$
75569	Empress	Lunenburg	47	Célestin Poirier	L'w'r D'Escousse	12	107 00
77822 53811	Eliza Smith		53	Alex. Poirier Dominique Fougère	Goulet	11 13	99 00 118 00
	Ethel B	Arichat		Edward Lehlanc	i do	4	30 00
80994	Esperance	Guysborough	16	Joseph Petitpas	Arichat	3	25 00
38477 83395	Elizabeth	Halifax	18 29	Placide Burke Lewis Murray	Port Richmond.	3	33 00 44 00
83083	Elerie Emma Proctor	Port Hawkesb'y	41	Edward Procton	Riv'rInhabitants	9	86 00
88462 74116	Fannie S		28 44	Docité Fougère		8 1	68 00 94 00
	Fama	Arichat	36	Wm. Levesconte Placide Forgeron	do West Arichat	3	51 00
88599	Guide	Halifax	38	Edward Poirier	L. D'Escousse	12	98 00
100161 38468	Hilda Maud Hector	Port Hawkesb'y	46 35	Ino. G. Murray Edward J. Walker	Port Richmond	4	66 00
		1111011000	00		habitants	7	70 00
88468	Irene Ida C. Spoffard	do	12	D. M. Gruchy	Petit de Grat	3	27 00 89 00
96764 83135	J. B. M	Halifax	54	Robt. Murray Samuel Burke	St. Peters	$\begin{bmatrix} 7 \\ 6 \end{bmatrix}$	50 00
88454	Jubilee	Arichat	34	David Gruchy	D'Escousse	9	79 00
85560 80972	Jacques John Vincin	Yarmouth	58 17	Fredk. Poirier	do Janyrin Island	14	128 00 32 00
	Julia			Louis Burke	River Bourgeois.	7	55 00
88467	Katie	do	11	Frank Sampson	Poulamond	12	31 00 106 00
72070 37551	Lennox Leading Star	do Halifax	46 39	David Gruchy Remie Joyce	do	10	89 00
88455	Laura Victoria	Arichat	39	Henry McDonald	do	10	89 00
38516 96763	Lady of the Lake Lelia Linwood	do	26 67	Peter Landry	St. Peters River Bourgeois.	8	66 00 142 00
72071	Lumen Diei	do	20	Urbain Sampson	do	5	45 00
74054	Laura E. Douglass.	Barrington	39		Port Richmond	6	69 00
	Messenger May Flower	Arichatdo	30	Cléophas Boudrot John Burke	River Bourgeois.		37 00
88463	Maria	dύ	14	Andrew Boudrot	Petit de Grat	4	34 00 58 00
	Mary	do do	23	Isaiah Boudrot Charles Wolfe	River Bourgeois.	3	25 00
88464 85388	Mary E Mary Alice	Halifax	20	Wm. Malcolm & Sons.	Port Malcolm	3	35 00
74365	Nova Stella	Arichat	53		D'Escousse River Bourgeois.	15	128 00 51 00
72048 54139	Neptune Ocean Belle	do Halifax	$\frac{26}{20}$	Wm. Levesconte Isidore Fougère	Poulamond	8	60 00
61630	Olive J	do	57	Jno. Malcolm	Port Malcolm	8	97 00
72067 46485	Philomene D Quickstep	Arichat	22 52	Jno. Pelham Jno. G. Murray, et al	Madame Island. Port Richmond.	$\frac{3}{6}$	37 00 82 00
88439	Ripple	Hamax	20	Isidore Boudrot	Petit de Grat	4	40 00
64033	Ripple.	Port Hawkesb'v	34 17	Geo. A. Cruickshank Daniel McDonald	Port Kichmond.	7	69 00
75763	Ripple	ATTCHRU	11	Daniel McDollaid	habitants	2	27 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

RICHMOND COUNTY—Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
88452 51781 85645	Union	Arichat. Halifax. do Arichat. Sydney Halifax do Arichat. do Halifax.	12 24 54 40 46 11 20 23 51 24 24 56	Maurice Burk. Rémi Fougère. Firmin Fougère. F. A. Burke R. Manbourquette. Arthur Leblanc Laurence Lavache. Dom. Boudrot.	West Arichat St. Peters Poulamond do River Bourgeois. L'Ardoise Arichat West Arichat Petit de Grat St. Peters Port Malcolm Poulamond	7 12 11 12 4 2 2	\$ cts. 22 00 59 00 114 00 95 00 106 00 31 00 33 00 86 00 59 00 54 00 126 00

SHELBURNE COUNTY.

97034								
94632 A. C. Greenwood Shelburne 15 Hugh M. Perry Black Point 5 40 00 90655 Annina Yarmouth 12 Benjamin Penney South Side 6 42 00 100612 Ardella Shelburne 10 Adam J. Firth Sand Point 4 30 00 100617 Altona do 28 Austin Swansburg Little Harbour 8 68 00 100620 Alina do 80 Churchill Lake Lockeport 18 170 00 180	05004	A TANK	37 (1	4 10	D :1 D1 1	TT		
94632 A. C. Greenwood Shelburne 15 Hugh M. Perry Black Point 5 40 00	97054	A. D'E	Yarmouth	19	David Diades		4	25 00
90655 Annina	0.4690	A G G	Cl11	1 2	III-rah M. Damer			
100612 Ardella								
Altona								
100620								
103701 Black Prince Samouth 15 Thos. W. Crowell Baccaro 4 33 00								
Sample								
Dourne			Yarmouth	15	Thos. W. Crowell	Baccaro	4	33 00
103186 Britannia do	88551	Blanche M. Thor-	01 11	0.0	IT TT FFF 1	T 1 T	4.0	155 00
103187 Ben Bolt do 80 Clifford Locke Lockeport 19 175 00	400400	bourne						
100604 Bella H. McKinnon 97028 Bertha Yarmouth 10 Edwin William Green Harbour 4 30 00 103181 Curlew Shelburne 63 Arthur Hood Shelburne 14 133 00 96970 Charlie Richardson do 26 John B. Harding Rockland 8 66 60 00 100605 Dawn Barrington 49 Angus N. Smith Barrington 11 104 00 100613 Dove Shelburne 80 Jon. M. Harding Osbourne 8 120 00 83492 Dessie Liverpool 11 E. A. Capstick Lockeport 4 31 00 100614 Eva Mc Yarmouth 19 James E. Smith LowerShag Harbour 3 34 00 100614 Eva Mc Yarmouth 16 Chas. M. Wickens Shag Harbour 4 36 00 69676 Edith do 40 Enos Churchill Lockeport 8 80 00 85476 Fleetwing Shelburne 11 Wilson Sperry Green Harbour 5 36 00 100815 Geneva Ethel Barrington 29 Charles Kenny Clarke's Harbour 5 36 00 100818 Geneva Ethel Barrington 29 Charles Kenny Clarke's Harbour 20 20 00 00647 Hattie Emeline Yarmouth 11 Chas. A. Reynolds UpperPt LaTour 3 26 00 00 00 00 00 00 00								
97028 Bertha								
103181 Curlew								
96970 Charlie Richardson 26 John B. Harding. Rockland 8 66 00 100605 Dawn Barrington 49 Angus N. Smith Barrington 11 104 00 100613 Dove Shelburne 80 Angus N. Smith Barrington 11 104 00 100613 Dove Shelburne 80 Angus N. Smith Barrington 11 104 00 100613 Dove 11 E. A. Capstick Lockeport 4 31 00 100614 Eva Mc Yarmouth 19 James E. Smith Lower Shag Harbour 3 34 00 100615 Fly Yarmouth 16 Chas. M. Wickens Shag Harbour 4 36 00 100615 Fly Yarmouth 17 Chas. M. Wickens Shag Harbour 4 36 00 100615 Garnet Yarmouth 27 Wm. P. Snow Port La Tour 5 52 00 100615 Garnet Digby 16 Isaac Nickerson Sable River 5 41 00 80799 Hattie T Digby 16 Isaac Nickerson Shag Harbour 2 26 00 100615 Happy Home Barrington 10 Harvey Slate Cape Negro 4 30 00 90647 Hattie Emeline Yarmouth 11 Chas. A. Reynolds Upper La Tour 3 26 00 97057 Horace B Liverpool 14 Geo. Hiltz Lockeport 5 39 00 1001374 Iona do 31 Benjamin Newell Clarke's Harbour 3 26 00 100147 Iona do 31 Benjamin Newell Clarke's Harbour 3 46 00 54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 73967 Katie Liverpool 14 Churchill Locke do 5 39 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 88664 Little Dorrit do 18 Walter Chetword Upper Wood's 20 00 14 Upper Wood's 20 00 14 Upper Wood's 20 00		Bertha	Yarmouth					
100605 Dawn Barrington 49 Angus N. Smith Barrington 11 104 00								
100613 Dove								
Sady								
Solution								
S5731 Eva L. H. Shelburne 62 B. P. Thorbourn Sandy Point 13 127 00					E. A. Capstick		4	31 00
S5731 Eva L. H. Shelburne 62 B. P. Thorbourn Sandy Point 13 127 00 96976 Edith do 40 Enos Churchill Lockeport 8 80 00 85476 Fley Yarmouth 16 Chas, M. Wickens Shag Harbour 4 36 00 85476 Fleetwing Shelburne 11 Wilson Sperry Green Harbour 5 36 00 103065 Garnet Yarmouth 27 Wm. P. Snow Port La Tour 5 52 00 100818 Geneva Ethel Barrington 29 Charles Kenny Clarke's Harbour 8 69 00 80831 Glide Lunenburg 16 Charles Anderson Sable River 5 41 00 80799 Hattie T Digby 16 Isaac Nickerson Shag Harbour 2 26 00 100815 Happy Home Barrington 10 Harvey Slate Cape Negro 4 30 00 90647 Hattie Emeline Yarmouth 11 Chas, A. Reynolds UpperPt LaTour 3 26 00 97057 Horace B Liverpool 14 Geo. Hiltz Lockeport 5 39 00 100167 Iona do 15 Wm. L. Page do 5 44 00 85566 J. Lyons Barrington 15 Wm. H. Nickerson Cape Negro 7 50 00 85689 James Beckwith do 31 Benjamin Newell Clarke's Harbour 3 46 00 54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 73967 Katie Liverpool 14 Churchill Locke do 5 39 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 20 00 18 Walter Chetword Upper Wood's	90644	Eva Mc	Yarmouth	19	James E. Smith		_	
Second S								
90645 Fly			Shelburne					
Shelburne								
103065 Garnet Yarmouth 27 Wm. P. Snow Port La Tour 5 52 00			Yarmouth					
100818 Geneva Ethel Barrington 29 Charles Kenny Clarke's Harbour 8 69 00 80831 Glide Lunenburg 16 Charles Anderson Sable River 5 41 00 80799 Hattie T Digby 16 Isaac Nickerson Shag Harbour 2 26 00 100815 Happy Home Barrington 10 Harvey Slate Cape Negro 4 30 00 90647 Hattie Emeline Yarmouth 11 Chas. A. Reynolds Upper LaTour 3 26 00 97057 Horace B Liverpool 14 Geo. Hiltz Lockeport 5 39 00 100607 Icelda Shelburne 19 Clifford Locke do 5 44 00 103174 Iona do 15 Wm. L. Page do 5 44 00 85566 J. Lyons Barrington 15 Wm. H. Nickerson Cape Negro 7 50 00 85689 James Beckwith do 31 Benjamin Newell Clarke's Harbour 3 46 00 94941 John Purney Shelburne 80 Geo. H. King Sandy Point 21 185 00 54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 90438 Lark Barrington 13 Saml Atwood Oak Park 2 23 00 90438 Lark Barrington 13 Saml Atwood Oak Park 2 23 00 88664 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 88261 Little Joe do 18 Walter Chetwynd Upper Woods								
Solution	103065							
Social Part			Barrington					
100815		Glide						
90647 Hattie Emeline Yarmouth 11 Chas, A. Reynolds UpperPtLaTour 3 26 00 97057 Horace B Liverpool 14 Geo, Hiltz Lockeport 5 39 00 100607 Icelda Shelburne 19 Clifford Locke do 5 44 00 103174 Lona do 15 Wm. L. Page do 5 40 00 85566 J. Lyons Barrington 15 Wm. H. Nickerson Cape Negro 7 50 00 85689 James Beckwith do 31 Benjamin Newell Clarke's Harbour 3 46 00 94941 John Purney Shelburne 80 Geo, H. King Sandy Point 21 185 00 54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 90438 Lark Barrington 13 Saml Atwood Oak Park 2 23 00 90438 Lark Barrington 13 Saml Atwood Oak Park 2 23 00 20 20 20 20 20		Hattie T	Digby	16	Isaac Nickerson	Shag Harbour		
97057	100815	Happy Home	Barrington	10	Harvey Slate			
97057 Horace B Liverpool 14 Geo. Hiltz Lockeport 5 39 00 100607 Icelda Shelburne 19 Clifford Locke do 5 44 00 103174 Iona do 15 Wm. L. Page do 5 40 00 85566 J. Lyons Barrington 15 Wm. H. Nickerson Cape Negro. 7 50 00 85689 James Beckwith do 31 Benjamin Newell Clarke's Harbour 34 60 90 19 46 00 19 60 14 00 19 18 18 18 18 18 18 19 19 19 19 19 19 19 19 14 19	90647	Hattie Emeline	Yarmouth	11	Chas. A. Reynolds	UpperPt LaTour		
103174 Iona	97057			14	Geo. Hiltz	Lockeport	5	
S5566	100607	Icelda	Shelburne	19	Clifford Locke	do	5	
Solution	103174		do	15	Wm. L. Page	do		40 00
Solid Soli	85566	J. Lyons	Barrington	15	Wm. H. Nickerson	Cape Negro	7	50 00
54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 73967 Katie Liverpool 14 Churchill Locke do 5 39 00 90438 Lark Barrington 13 Saml. Atwood Oak Park 2 23 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 22 00 88261 Little Joe do 18 Walter Chetwynd Upper Woods Upper Woods	85689			31	Benjamin Newell		3	46 00
54132 John Franklin Halifax 18 Robert Firth Jordan River 6 48 00 88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 73967 Katie Liverpool 14 Churchill Locke do 5 39 00 90438 Lark Barrington 13 Saml. Atwood Oak Park 2 23 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 22 00 88261 Little Joe do 18 Walter Chetwynd Upper Woods Upper Woods	94941	John Purney	Shelburne	80		Sandy Point	21	185 00
88554 Jersey Lily Shelburne 80 Enos Churchill Lockeport 14 150 00 73967 Katie Liverpool 14 Churchill Locke do 5 39 00 90438 Lark Barrington 13 Saml. Atwood Oak Park 2 23 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 22 00 88261 Little Joe do 18 Walter Chetwynd Upper Wood's	54132	John Franklin	Halifax	18			6	48 00
73967 Katie	88554		Shelburne	80			14	150 00
90438 Lark Barrington 13 Saml. Atwood Oak Park 2 23 00 100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 22 20 88261 Little Joe do 18 Walter Chetwynd Upper Woods							5	
100817 Little Dorrit do 64 Angus N. Smith Barrington 14 134 00 80624 Lima Yarmouth 12 Wm. Halliday Bear Point 2 22 00 88261 Little Joe do 18 Walter Chetwynd Upper Wood's							2	23 00
80624 Lima. Yarmouth. 12 Wm. Halliday. Bear Point. 2 2 20 0 88261 Little Joe. Bear Point. Upper Wood's							14	
88261 Little Joe do 18 Walter Chetwynd Upper Wood's	80624	Lima					2	22 00
TT1								
Harbour 3 35 00						Harbour		33 00

List of Vessels which received Fishing Bounty, &c.—Nova Scotia—Con.

SHELBURNE COUNTY-Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
103185 100606 100816 92568 97024 83434 103181 100614 103177 103175 83493 103182 90439 96977	Lena Latona Myra Louise Mattie Morrissey Maty Kate Mary Amanda Mary May MayMower May Flower Mayflower Mayflower Mayflower Mayflower Mayrtle Mary C Meta Oscar F Oriole Ranger Rob Roy Rialto Speed Ste. Anne Susan C Sea Slipper Theresa Tivoli Trilby Vesta Pearl Vesper Water Sprite Will Carleton Wyvern Wren Whip-poor-will Yuba.	Shelburne Barrington do Shelburne Yarmouth Barrington Shelburne do do do do Liverpool Shelburne Barrington Shelburne Barrington Shelburne Barrington Shelburne Barrington Yarmouth Shelburne Yarmouth Barrington do Shelburne Yarmouth Barrington do Shelburne Go Barrington Shelburne Abelburne Go Barrington Shelburne Obelburne Abelburne Obelburne	80 17 24 13 42 20 26 11 10 80 80 18 18 43 11 12 46 13 11 18 24 31 14 50 80 80 25 18 11 18 11 19 10 10 11 11 11 11 11 11 11 11 11 11 11	Nehemiah Smith Jno. A. Mc Gowan. James Lowe. D. G. Morrissey. Samuel D. Rudolph E. P. Greenwood Peter M. Crowe. Mark A. Vernon Uriah Williams Alfred Swim. Jno. Mathews Geo. L. Decker, sr. Wm. McMillan Clifford Locke. Henry Purney Clifford Locke. Henry Purney Clifford Locke. Thos. K. Nickerson. Jethro Swim A. E. Thorbourn Robert Nickerson. Jno. W. Kenny James F. Ross. James Enslow Stanford Kenney. Wm. J. Doane. Wm. McMillan N. J. Smith et al. Geo. S. Decker, jr. Colin C. Nickerson. Joseph A. Smith Charles L. Swim Wm. McCarthy. James Cook Charles E. Crowell.	Church Over. N. E. Harbour. Sandy Point. do W. Green Harb'r Lockeport Rockland Little Harbour. Lockeport do South Side. Lockeport Doctor's Cove. Clarke's Harbour Sandy Point. Upper Wood's Harbour Clarke's Harbour Stoney Island. Green Harbour. Clarke's Harbour Red Head Lockeport Lower Wood's Harbour Lower Wood's Harbour Lories Island Little Harbour Lower Wood's Harbour Port La Tour. Clarke's Harbour Stands Sides Harbour Port La Tour. Clarke's Harbour Black Point.	21 6 9 5 9 6 5 4 4 3 7 4 4 19 5 7 10 4 4 8 8 4 2 6 10 10 10 10 10 10 10 10 10 10 10 10 10	\$ cts. 28 00 185 00 47 00 69 00 38 00 87 00 50 00 51 00 31 00 27 00 56 00 30 00 175 00 43 00 93 00 31 00 32 00 86 00 23 00 31 00 28 00 54 00 81 00 29 00 50 00 160 00 39 00 160 00 50 00 43 00 50 00 50 00 50 00 50 00 50 00 50 00 50 00
	1	VIC	FOR	IA COUNTY.]	
69133	Susan	. Halifax	. 17	J. D. McNeil	Ingonish	1	22 00
		YARI	MOU	TH COUNTY.			
	Dora. Eddie C. Eddie J. Eva. Ethel Flora.	do	64 25 80 80 63 11 23 10 80 64	Zacharie D'Eon Henry T. D'Entremon Charles D'Entremont. A. F. Stoneman & Co. do James F. Harding Webster Hamilton Gabriel Bourke J. H. Porter & Co David D'Entremont.	do t. E. Pubnico West Pubnico . Yarmouth do . Argyle . Lower Argyle Bourke's Cove . Tusket Wedge West Pubnico . Tusket Wedge.	17 4 18 23 17 1 1 2 18 18 18	170 00 149 00 46 95 170 00 195 00 148 00 28 00 20 00 170 00 31 00 180 00

List of Vessels which received Fishing Bounty, &c. - Nova Scotia-Con.

YARMOUTH COUNTY—Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Cwner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
85554 80643 100327 88581 90887 80614 80632 103059 88596 85539 88583	Hazel Glen Hazel Dell. Hattie King Fisher L Etoile. Louise Lumen Lady Bourque. M. A. Louis Maggie Jane. Mary O'Dell	Yarmouthdo do d	80 80 10 47 48 80 30 11 64 12 14	Charles D. D ⁷ Eon Wm. Robbins Levi Robicheau.	Yarmouth do	22 16 3 6 13 16 6 3 15 2 3	\$ cts. 190 00 160 00 25 00 77 00 113 00 160 00 60 00 26 00 139 00 22 00 29 00
90659 90892 85553 100313 75724 96962 88589 88597 90897 90882 90896	N. Å. Laura. Nellie Onyx Souvenir Senora Sea Foam Sunrise. Sanford Uncle Sam Wrasse. Will o' the Wisp. Wapiti	do	59 59 80 71 80 75 18 20 80 56 51 80	Julien D'Entremont J. H. Porter & Co Parker, Eakins & Co Nicholas D'Entremont Marc A. Surette J. H. Porter & Co	West Pubnico Tusket Wedge Yarmouth West Pubnico do Tusket Wedge Yarmouth do West Pubnico	17 10 18 21 21 14 3 * 20 16 16 18	144 00 109 00 170 00 176 00 185 00 145 00 33 00 20 00 180 00 131 00 170 00

^{*} Crew not entitled to bounty.

List of Fishing Vessels which received Fishing Bounty, &c.—Continued.

PROVINCE OF NEW BRUNSWICK.

CHARLOTTE COUNTY.

Official Number	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
							\$ ets.
103124	Addie B:	St. Andrew's	13	Arthur Ramsdell	White Head	11	18 00
94727	Aurelia	St. John	22	James Scovil	Grand Manan	3	37 00
83469	Austin P	St. Andrew's	12	Eben Greenlaw	Deer Island	4	32 00
100111	Bess	Parsboro', N.S	24	Frank Cassidy	Lepreaux	3	39 00
64011	Bee	St. Andrew's	18	B. T. Fletcher	Wilson's Beach	3	33 00
88409	Carrie	Digby, N.S	12	Thos. A. Cook	La Tête	3	27 00
88290	Crusoe	St. Andrew's	13	James Starkey		3	28 00
59375	Cadet	do	19	Ethelbert Savage		5	44 00
35338	Caroline	do	18	Henry Stuart	Deer Island	5	43 00
92503	Defiance Della F. Tarr	do	17	Frank Calder	Campobello	3	32 00
103118	Della F. Tarr	do	34	C. H. Greenwood		7	69 00
74326	Dreadnaught E. B. Lane	Yarmouth, N.S.	19	Alfred Stanley, sr		3	34 00
88280	E. B. Lane	St. Andrew's	13	Fred. Tewsbury	do	2	23 00
80303	Exenia Ella Mabel	Windsor, N.S	18	Wm. F. Parker	Beaver Harbour.		38 00
80882	Ella Mabel	St. Andrew's	14	Walter Calder, jr		3	29 00
83202	Enchantress	do	10	Peter Dixon			15 00
94834	Flora Wooster	do	22	Andrew McGee			37 00
88276	Falcon		12	Jno. F. Cronk	Grand Manan	3	27 00
92511	Fleet Wing	do	11	Alden McFarland	do	2	21 00
97150	Gleaner	do	13	Andrew McGee	Back Bay	1	18 00
94835	Georgie Linwood	do	25	Robert Barry	Beaver Harbour.		50 00
59379	Gazelle	do	47	William Watt	Grand Manan	8	87 00
59396	Gurtie Westbrook	do	16	James Cline		1	21 00
94839	Harrie	do	14	Wm. Tucker	La Tête	3	29 00
83463	Havelock	do	33	Wm. James	Wilson's Beach	5	58 00
103123	Indicator	do	11	Frank Ingersoll	Grand Manan	2	21 00
103121	Island Girl	do	17	do			27 00
51965	John E. Dennis	do	18	Alfred Stanley			38 00
83426	Louisa	St. John	16	Wm. Shaw			31 00
59342	Lizzie S. McGee	St. Andrew's	14	Andrew McGee			34 00 23 00
88273	Lillian E	do	13	W. & J. M. Calder	do	3	33 00
77965	Lybia B	do NT C	18	W. & J. M. Calder	Campobello	3	30 00
77766	Laconic	Shelburne, N.S	15	John Dixon		*	15 00
88407	Linnet	Digby, N.S	49	Milton Eldridge	Reaver Harbour	12	109 00
103117	Magaret	St. Andrew's St. John.	18	Thomas Bright	Sooly's Cove	2	28 00
88277	Maggie Jane		14	Chas. Dixon	Grand Monan	2	24 00
85442	Mystery	St. Andrew's	53	Eben Gaskill			93 00
88402	Mizpah	Digby, N.S St. Andrew's	10	John Thomas		3	25 00
92514	Maggie Jane		11	Thos. Richardson	Deer Island	2	21 00
94837	Olga		18	Martin Eldridge	Beaver Harbour		33 00
92518	Peril		11	Eben Calder	Campobello	3	26 00
75864	Roving Lizzie Rise and Go	St Androw's	16	Wm. Sirls	Wilson's Beach		31 00
75591	Simeon H. Bell	1St. Andrews	14	Charles Dixon	Grand Manan	3	29 00
88272	Trumpet	St. Tohn	20	Geo. U. Wright	Beaver Harbour.	3	35 00
88414	Telephone	St Androw's	19	James Brown	Wilson's Beach.	3	34 00
59387	Venus	do	42	Simon Brown	do .	9	87 00
94832	Venus		10	Simon Leonard	Deer Island.	2	20 00
88282	Veritas		13	A. W. Ingersoll	Grand Manan.	3	28 00
103111	Volunteer		11	H. W. Foster	do	4	31 00
77969 92512	Wave Queen Water Witch		11	Robert Main		3	26 00

^{*} Crew not entitled to bounty.

List of Vessels which received Fishing Bounty, &c.—New Brunswick—Con. GLOUCESTER COUNTY.

		G1000		TER COUNTY.			
Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
							8 ets.
100984 103279 96739 103085 103071	Alice Alice Maud. Angeline Argentina Anglesea	Chatham do do do	11 10 14 12 12	Charles De Gruchy Peter Fiott. Octave Gionet V. L. Lanteigne H. H. LeBoutillier	do	3 3 3	31 00 25 00 29 00 27 00 27 00
100987 103769 103081 103763	Arabi Alma. Albatross. Alouette.	do do	10	Jno. B. Sirois Thomas Ahier do	do do Shippegan do	3 3	27 00 25 00 28 00 25 00
100960 103009	Anna. Annie M Adeline Gladys	do	11 12 11 12 12	W. S. Loggie Dosité Chiasson. W. S. Loggie Richard Young.	Caraquet Shippegan	3 2	31 00 27 00 26 00 22 00
72099 97194 100983 61431 103589	Adeline	do do do do	12 12 11 11 11 13	Clément Lanteigne. Lange Paulin, sr Chas. De Gruchy Paul Noël Peter Fiott	do Caraquet Lamèque	30 30 30 30 30 30 30 30 30 30 30 30 30 3	27 00 27 00 26 00 26 00 28 00
100299 100780 100975 103072	Blanchard Britannic Big Bear Ben Hur	do	12 12 10 11	do C. Hubbard Robt. Young & Son Richard Young	do do	3 . 3 .	27 00 27 00 27 00 25 00 26 00
72079 100909 103271 100774	Betsy Blue Nose Celia Calliope	do do do	13 11 11 12	Sébastien Noël. Joseph Sewell. Dom. Gallien P. Rive	Caraquet do do	3 3 4	33 00 26 00 26 00 32 00
103585 100988 100971 100784 100789	Cerdric Cæsar Cyprian. Charlotte Chazalie,	do do do do		do do Elie Sivret. R. Young & Son do	do do	3 3 3 4	29 00 25 00 26 00 28 00 31 00
100916 101000 103083 100917	Cygnet	do do do	12 10 10	George Romeril Thomas Ahier do Geo. Romeril	Paspebiac, P.Q Shippegan	3 3 3	27 00 25 00 25 00 26 00
100915 100999 100913 103076	Dawn Dove Daffodil Dipper	do do do do	12 11 10 11	T. Ahier. do W. S. Loggie	do Shippegan do	3 3 4	27 00 26 00 25 00 31 00
92412 103590 100293 103090 100772	Dollie Dutton. Eliza Eliza Etna Estelle	do do do	13 13 15 11 13	Richard Young. P. Fiott Robt. Young & Son. P. Rive	Caraquet do do	4 3 4 3 3	33 00 28 00 35 00 26 00 28 00
100905 100786 100787 100998	Evangeline Empress Ethel Eagle	dodo dodo	10 12 11 10	do Robt. Young & Son do T. Ahier	do do	3 3 4	25 00 25 00 27 00 26 00 30 00
100911 96723 96737 61405	Emperor	do do do	11	Ludger Duguay. Jacques Noël. Alexr. McLaughlan	do do do Tracadie	3 3 4 4	25 00 30 00 31 00 31 00
100977 96736 85699 100782 103001	Fly. Four Sisters. Flying Foam Falcon	do do do do	12 14 10 12 10	Chas. DeGruchy Richard Young. Marcel Caron Robt. Young & Son	Shippegan Caraquet	3 3 3	27 00 34 00 25 00 27 00
100912 103077 83399 100298	Foam Fame. Fannie R. C. Fisher.	do do Halifax, N. S Chatham	10 10 22 12	Elie Chiasson	do Caraquet Wilson's Point Lamèque	3 3 4 4	25 00 25 00 25 00 42 00 32 00
61440	Flavie	do	13	Theophile Duguay	do	4	33 00

LIST of Vessels which received Fishing Bounty, &c.—New Brunswick—Con.

GLOUCESTER COUNTY—Continued.

-:	1	1					
Official Number	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
						i	\$ cts
92418 100968 96733 100778 100954 100919 100993 100964 100992 100989 1007790 103282 103766 103086 100906 100994 100997 96724 100965 100969 103281 103289 100958 100981 103283 100980 103283	Grip Gem Gem Gambetta. Gazelle. Gazelle. Gazelle. Gazelle. Gazelle. Gleaner Garfield. Gladstone. Great Mogul Gladiator Guiding Star. Gilnockie Genesta Gipsey Hotspur. Hercules. Hope. Hope. Hirondelle Harold N Ivanhoe Isabel. Josephine John Bull Japan. Jersey Lily John B Kite. Kite. Koh-i-noor. Lynx Lilly Leo Lady Maud.	do d	11 12 12 13 10 10 10 11 11 11 11 12 20 00 11 11 11 12 11 11 11 11 11 11 11 11 11	James Davidson Charles DeGruchy Richard Young C. Hubbard do Geo. Romeril Luc Lanteigne P. Rive. do do do T. Ahier W. S. Loggie Philip Rive. do Robert Young & Son. Geo. Romeril T. Ahier. W. S. Loggie T. Ahier. Pierre Noel P. Rive. Joseph Sewell Robert Young & Son. T. Ahier Pierre Noel P. Rive. Joseph Sewell Robert Young & Son. T. Ahier Pierre Noel P. Rive. Joseph Sewell Robert Young & Son. T. Ahier Pierre Noel P. Rive. Joseph Sewell Robert Young & Son. T. Ahier Pierre Noel P. Rive. Joseph Sewell Robert Young & Son. T. Ahier Philip Rive Charles DeGruchy P. Fiott Hyacinthe Lanteigne. P. Rive. Robert Young & Son.	Caraquet Shippegan Caraquet do Paspebiac, P. Q. Caraquet do do do do do Shippegan Caraquet do do Caraquet do Caraquet do do Shippegan Caraquet Shippegan Caraquet Shippegan Caraquet do do Shippegan Caraquet Caraquet do do Shippegan Caraquet do do Shippegan Caraquet do Caraquet do Caraquet do Caraquet do Caraquet do Shippegan Caraquet do Caraquet do Shippegan Caraquet do Shippegan Caraquet	00 00 00 00 00 00 00 00 00 00 00 00 00	\$ cts. 27 00 26 00 27 00 27 00 27 00 28 00 25 00 25 00 26 00 26 00 26 00 22 00 40 00 25 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00 27 00 31 00 26 00
103089	Lord Stanley	do	10	Robert Young & Son	do	3	26 00 25 00
100972 103003 103075 92413 88669 103278 92403 92403 103008 100300 100955	Lizzie D. Lark Lilly Belle. Mary Jane Morning Star Marie Celia. Marie † Marie Max. Mikado Majestic.	do	11 10 14 14 12 14 25 25 10 13 10	do T. Ahier. W. S. Loggie Theodore Savoie Gustave Gionet. Lange Albert Ubalde Landry do Maxime Cormier P. Fiott C. Hubbard	Shippegan Caraquet Tracadie. Pokemouche Blue Cove Grande Anse do Caraquet do	3 2 2 3 3 3 4 3 3 3 4 3 3	26 00 20 00 24 00 29 00 27 00 29 00 56 88 45 00 25 00 28 00 25 00
100779	Mermaid	do	11	do	do	3	26 00
100781 103768 103084 100295 100785 100957 61447 72100	Mary Louise. Mayflower Mary Emma. Marie Louise Midnight Mary R Merida	dodododododododododododo	11 13 11 18 12 12 13 11	do H. LeBoutillier Onesime Poulin Joseph A. Poulin Robert Young & Son W. S. Loggie André B. Aché Onésime Chiasson	do do Caraquet. do Shippegan do	3 3 4 3 3 4	26 00 28 00 26 00 38 00 27 00 27 00 28 00 31 00
100292	Marie Joseph	do	12	Lazare Gauvin	Lamèque	3	27 00
	MacMahon. Nellie Normandy Osprey	dodo dodo	11 11 11 10	P. Rive Dom. Gallien. P. Rive T. Ahier.	do	3 3 4	26 00 26 00 26 00 30 00

LIST of Vessels which received Fishing Bounty, &c.-New Brunswick-Con.

GLOUCESTER COUNTY—Continued.

Official Number.	Name of Vessel.		ort of gistry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Crew paid.	Amount of Bounty paid.
								\$ cts.
103004	Oriole			11	T. Ahier	Shippegan	3	26 00
96740 72076	Providence	do do		13 12	Prospère Albert T. Ahier	Caraquet	3 3	28 00 27 00
96732	Providence	do	,	11	J. L. Robichaud	do	4	31 00
100776	Patrick	do		11	P. Rive	Caraquet	3	26 00
100996	Parisian	do do		10 11	do	do	3	25 00
100904 103080	P.T.S	do		11	Thomas Sivret T. Ahier	do	3	26 00 26 00
103746	Petrel	do		12	do	do	3	27 00
100297	Palma	do		14	Oliver Duguay Robert Young & Son	Lamèque	4	34 00
100967 97191	Queen	do do		10 12	Chas. DeGruchy	do	3 3	25 00 27 00
100979	Ranger	do		10	do	do	1	15 00
100908	Ranger	do		10	Edward LeBoutillier	do,	3	25 00
100775 100773	Red Gauntlet	do do		11 12	P. Rive	do	3	26 00
100773	Rupert	do		10	do Geo. Romeril	do	3	27 00 25 00
103287	Raven	do		11	T. Ahier W. S. Loggie	Shippegan	3	21 00
103587	Romulus	do		19	W. S. Loggie	Caraquet		34 00
103586 103078	Remus	do do		17 13	James DeGrace	do,	3 4	32 00 33 00
103272	Reward	do		11	James DeGrace. Richard Young. John M. Ward.	do	2	21 00
103273	Russel	do		10	John M. Ward ,	Miscou Island	3	25 00
96727 61438	Ryse	do do		11 13	Sinaï Aché	Lameque	3	26 00 28 00
100982	Snowdrop	do		11	Charles DeGruchy	Caraquet	3	26 00
100978	Speedy	do		11	do	do	3	26 00
103761 103767	Swing Stella Maris	do do		11 19	P. Fiott Luc Friolet	do	3 3	26 00
1.03010	Sarah B	do		10	J. Lanteigne	do	3	34 00 25 00
103087	Stanley	do		10	Théotime Poulin	do	3	25 00
100963 103584	Stanley	- do do		10 13	P. Rive		3 3	25 00 28 00
100907	Saxon	do		10	Robert Young & Son		3	25 00
100974	Sivret	do		-10	do	do	3	.25 00
100901 100914	Sea Flower	do		12 11	do	do	3	27 00
100788	Sea Flower	do do		11	Geo. Romeril	Caraquet	3 3	26 00 26 00
103286	Snipe	do		11	T. Ahier	Shippegan	` 3	26 00
103762	Swan	do	• • • • • • •	14	do		3	29 00
103006 100961	Silver Moon	do do		11 14	W. S. Loggie	do	4 4	31 00 34 00
96731	Sea Star	do		13	Joseph Savoie.	Shippegan	3	28 00
100986	Swift	do		11	Fabien G. Chiasson	Little River		
92408	Sarah A. W	. do		15	Robt. J. Wilson	Shippegan	3 3	26 00 30 00
100959	Sea Bird	do		10	André F. Aché	Lamèque.	3	25 00
103008	St. Joseph	do		12	Adolphe Aché	do	4	32 00
74401	Sara	do do		11 11	Nazaire Noël	do	4	31 00
100777 100918	Teutonic	do		12	C. Hubbard	Pasnéhiac P.O	3 3	26 00 27 00
103082	Thrush	do		10	T. Ahier	Shippegan	3	25 00
96738	Three Brothers	do		12	Richard Young	do	3	27 00
103293 100966	Two Brothers Von Moltke	do do		11 11	Martin G. Wilson Philip Rive	Caraquet	3	26 00 26 00
100995	Voltaire	do		10	do	do	3	25 00
103285	Valkyrie	do	**: * * * *	12	do	do	3	27 00
103588 103274	Vulture	do do		13 10	W. S. Loggie	Shipperan	3 4	28 00 30 00
100985	Wasp	do			Geo. D. Mallet. Chas. DeGruchy	Caraquet	3	27 00
100953	Wasp White Wings	do		10	Robert Young & Son	do .,	3	25 00
100973	World's Fair	do		11	do do	do	3	26 00

List of Vessels which received Fishing Bounty, &c.—New Brunswick—Con.

GLOUCESTER COUNTY-Concluded.

Official Number.	Name of Vessel.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	. Residence.	No. of Crew paid.	Amount of Bounty paid.
103079 88663 96735 100920	Wren. William Sinclair. N White Fish Zephyr	do	17 12	T. Ahier. W. S. Loggie. Joseph Savoie, jr Geo. Romeril	Caraquet	3 4 4 3	\$ cts. 26 00 37 00 32 00 27 00
		NORTHUM	(BE)	RLAND COUNTY.			
83105 92420	Katie Bell Mary Louise	Richibucto			Neguac Church Point	. 4	31 00 28 00
	1	RESTIG	OU	CHE COUNTY.			
94959	Winnie G. S	Lunenburg, N.S.	26	Daniel McGregor	Dalhousie	5	51 00
	,	ST. J	ОН	N COUNTY.			200
	E. B. Colwell E. M. Oliver Lost Heir Lily Mary E Sea Flower Vanity Winnie	St. John St. Andrew's St. John do Yarmouth, N.S.	14 15 10 21 11 11	Charles Harkins Henry Alston Frank Campbell Fredk. Buchanan	do Pisarinco Dipper Harbour St. John Chance Harbour Dipper Harbour	. 3 . 4 . 2 . 4	34 00 29 00 35 00 20 00 41 00 26 00 26 00 22 00

List of Vessels which received Fishing Bounty, &c.—Continued.

PROVINCE OF PRINCE EDWARD ISLAND.

KING'S COUNTY.

Official Number.	Name of Vessél.	Port of Registry.	Tonnage.	Name of Owner or Managing Owner.	Residence.	No. of Orew paid.	Amount of Bounty paid.
92675 38335 83196 100691 69109 100696	Belle of the Bay Can't Help It Elizabeth Ethel Blanche Frances E. Willard. Marcella Butler Marion Emerson Morell. Nottie M. G. Orion Seabird Wave	Pictou, N.S Arichat, N.S Pictou, N.S do Halifax, N.S Pictou, N.S Charlottetown Halifax, N.S Charlottetown do	20 40 17 17 23 38 30 16 32 78 20 19	David H. Gosbee John Herring Daniel Hemphill Wm. Reynolds. Benj. H. Herring. John Hemphill Reuben Cahoon Edward Delorey John Cahoon Daniel Walker Joseph White James Delorey	Murray Har. S. Georgetown. Murray Har. S. do Georgetown. Murray Har. S. Brudenell. Murray Har. S. Georgetown. Cape Bear.	6 4 5 2 5 12	\$ cts. 40 00 70 00 37 00 37 00 53 00 55 00 26 00 57 00 138 00 40 00 34 00
	-	PRII	NCE	COUNTY.		-	
71310 80928 75891 83096 94992 96926	Black Watch L. H. Davies May Queen St. Patrick Sarah P. Ayer Sea Foam.	do Chatham, N.B do Charlottetown	33 22 16 64	Gallant & Pineo James L. Richards John White	Alberton Alberton	7 4 5 12	43 00 68 00 42 00 41 00 124 00 35 00
		QUE	EN'	S COUNTY.			
90476 92466 96936 61967 103592	Fanny G. H. Gardiner Katie and Ella Onward Rosamond	do do	26 17 20 52 18	Joseph Gallant Ebenezer Marshall Jacob Van Buskirk Alfred McLeod Frank A. Churchill	Rustico	5	51 00 37 00 45 00 52 00 43 00

^{*} Crew not entitled to bounty.

LIST of Vessels which received Fishing Bounty, &c. -Concluded.

PROVINCE OF QUEBEC.

GASPÉ COUNTY.

96766 Golden I 94675 Success. 69584 Marie L 69586 Aristile. 100463 B. C. 61966 D. Cron 50909 Elugénie 85754 Florida 88469 George 85750 H. B. 100860 Hovingt 66259 Katie E 103355 Maria A 69380 Maria A 69380 Maria A 69380 Maria A 69380 Maria A	da	RIMO		Name of Owner. or Managing Owner. J. P. Savage	Amherst, M.I Halifax, N.S	croo No. of Crew paid.	Amount of Amount of Bounty paid.
74270 Amarild 85756 Aristile 100857 Alix	Louise	RIMO	0US	R. J. Leslie KI COUNTY.	Halifax, N.S	5	82 00
74270 Amarild 85756 Aristile. 100857 Alix 42436 Amelia. 100463 B. C 61966 D. Cron 50909 Elizabet 80754 Eugénie 85754 Florida 88469 George (88750 H. B 100860 Hovingi 66259 Katie E 103355 La Cler 55863 Maria A 69380 Marie A 103136 Marie A	da	Quebec		1	Sandy Bay	3	
74270 Amarild 85756 Aristile. 100857 Alix 42436 Amelia. 100463 B. C 61966 D. Cron 50909 Elizabet 80754 Eugénie 85754 Florida 88469 George (88750 H. B 100860 Hovingi 66259 Katie E 103355 La Cler 55863 Maria A 69380 Marie A 103136 Marie A	da	1	23	Louis Castonguay	Sandy Bay	3	
85756 Aristile. 100857 Alix 42436 Amelia. 100463 B. C 61966 D. Cron 59909 Elizabet 80754 Eugénie 85754 Florida 88469 George 6 66259 H. B 100860 Hoving 66259 Katie E 103355 La Cler 55863 Maria A 69380 Marie A 103136 Marie A		SAGU					38 00
85756 Aristile. 100857 Alix 42436 Amelia. 100463 B. C 61966 D. Cron 59909 Elizabet 85754 Florida 88469 George 6 85750 H. B 100860 Hoving 66259 Katie E 103355 La Cler 55863 Maria A 69380 Marie A 103136 Marie A			EN.	AY COUNTY.			
69382 Maried 100462 Mary	clarke, jr. Clarke, jr. ton L. Stuart ina. Adelmina. Anne Dlaude Dliva. Victoire. u Sacré Cœu	do do do Gaspé. Quebec. Halifax, N.S. Quebec. do Arichat, N.S. Quebec do Halifax, N.S. Quebec do Gaspé. Quebec do Gaspé. Quebec do do Gaspé. Quebec do	17 54 20 13 36 21 12 20 46 19 22 20 53 37 23 51 52 36	Cléophas Vézina Philéas Vézina Alfred Tremblay Paul Cormier François Métivier Peter LeMarquand Elisée Caron André Vigneau Charles Gasse Luc Cormier Hypolite Boudreau Thomas Riverin James P. Buckle Narcisse Levesque C. Levesque C. Levesque C. Levesque Charles Landry Ulric Couillard Horace Demeule Alphonse Pedneaud Paul Landry Joseph Gagné Louis Pineault Lazare Michaud Pierre Ouellette Alex. Scherrer Alphée Bergeron Louis Cummings, sr Dominique Cormier Louis Gagnon Auguste Boulet. Thomas Riverin Benjamin Bergeron	do St. Thomas de Montmagny Pt. Esquimaux. Montmagny Pt. Esquimaux. Sandy Bay Pt. Esquimaux. Sandy Bay Pt. Esquimaux. Co Murray Bay Bonne Espérance Notre-Dame He Verte do Pt. Esquimaux. Sandy Bay He aux Coudres do Pt. Esquimaux. Malbaie Bic Trois Pistoles Quebec Pt. Esquimaux. He aux Coudres do Pt. Esquimaux. Malbaie Sic St. Thomas do Pentecost St. Thomas de Montmagny	28 25 36 6 * 6 10 34 4 22 28 22 34 46 22 22 48 48 48 48 48 48 48 48 48 48 48 48 48	34 00 29 00 23 00 90 00 25 00 65 00 42 00 78 00 94 00 107 00 32 00 74 00 30 00 23 00 76 00 31 00 27 00 40 00 73 00 62 00 40 00 73 00 62 00 40 00 73 00 62 00 40 00 73 00 63 00 64 00 74 00 85 00 86 00 87 00

[†]For 1895. ‡For 1894. *Crew not entitled to bounty.

APPENDIX No. 3.

NOVA SCOTIA.

District No. 1—Comprising the four counties of the Island of Cape Breton. Inspector A. C. Bertram, North Sydney. C.B.

District No. 2.—Comprising the counties of Cumberland, Colchester, Pictou. Antigonish, Guysborough, Halifax and Hants. Inspector Robert Hockin, Pictou.

District No. 3.—Comprising the counties of King's, Annapolis, Digby, Yarmouth, Shelburne, Queen's and Lunenburg. Inspector L. S. Ford, Milton.

DISTRICT No. 1.

ANNUAL REPORT ON THE FISHERIES OF CAPE BRETON ISLAND, COMPRISING THE COUNTIES OF CAPE BRETON, INVERNESS, RICHMOND AND VICTORIA.

NORTH SYDNEY, C.B., 2nd January, 1897.

Hon. L. H. DAVIES, Minister of Marine and Fisheries.

Sir. - I have the honour to transmit herewith the statistics of the fisheries of the Island of Cape Breton for the year 1896, together with synopses of the reports of the several local officers, and a detailed statement of materials used in the fishing

industry.

Besides the usual comparative tables, there will be found embodied in this report statement showing at a glance the increase and decrease in the fisheries by counties compared with 1895; the average earnings by counties per fisherman for the present year; a comparison of yield of seven of the leading branches with the two previous years, and a table giving the number of lobster canneries in operation in each of the four counties for the present year, the number of persons employed and the total value of the season's pack.

In gathering these statistics, I have always impressed upon the several overseers the necessity of exercising the utmost care in obtaining their information from only reliable dealers and fishermen, so that the actual yield of the fishing industry

be given to the country in these annual returns.

It will be observed by the following comparative table that there has been a decrease in the total yield:—

County.	Value, 1895.	Value. 1896.	Increase.	Decrease.
Cape Breton. Inverness. Richmond. Victoria	\$ 191,953 77 315,846 78 379,193 23 180,782 33	\$ 197,214 63 301,966 70 343,721 75 200,644 39		13,880 08 35,471 48
	1,067,776 11	1,043,547 47	25,122 92	49,351 56
Decrease				24,228 64

The decrease in the value of the fisheries for 1896 may be attributed to three causes, viz., low market prices for leading articles of fish product; failure of the mackerel fishery and the shortage in the eatch of herring. This decrease I predicted in my preliminary report, forwarded in November last, before the statistics were gathered. The following table contains statistics relating to the lobster fishing industry, as carried on in each of the four counties of Cape Breton Island:—

County.	Number of Canneries in Operation.	Number of Persons Employed.	Total value of the Season's Pack.
Cape Breton	10	515 300 503 252	\$ 62,728 68 33,546 80 72,055 20 28,576 24
	64	1,570	196,906 92

There was a much larger number of canneries in operation in 1896 than in any previous year, and although there is an increase in the season's pack, the total yield per cannery is below the average of last year. From information already to hand, I learn that there will be a larger number of canneries operated in this district next season than in any previous year. The multiplying of these canneries threaten the extinction of this important fishery at no distant day. It would seem, therefore, that some further restriction is necessary to preserve this fishery than the present regulations afford. There is no illegal fishing carried on in this district after the close season begins. The regulations are, I believe, as well observed here as elsewhere. Still I have reason to believe that there are violations, not at the canneries, but when the fish are being taken from the traps. The average fisherman shows no inclination to preserve the fishery, and when he comes across a spawned lobster in the trap, he is liable to destroy the spawn. This is done by rubbing the berried part of the fish across the gunwale of the boat, thus removing every trace of spawn from the lobster. This is the most iniquitous practice adopted to evade the regulations. If the department would offer a reward in each district for the conviction of fishermen found guilty of this practice, I have no doubt it would restrict it to some extent. Considering the danger to this industry by overfishing, I am of the opinion that a license should not be issued to a new cannery in closer proximity than three miles of one previously in operation.

For instance, up to the end of the present season there was only one cannery operated at Little Bras d'Or Gut. Next season within a radius of two miles, if licenses are granted, there will be three canneries in operation, yet the fishing grounds there can only supply one cannery for an average season's pack. The following is the product of this fishery for the four past years:—

	Lbs. preserved.
1893	. 1,211,970
1894	1,055,795
1895	. 1,330,474
1896	. 1,406,478

Besides the above, the following returns show the quantity of fresh lobsters marketed during the same period:—

	Tons.
1893	39
1894	42
1895	3
1896	152

CODFISH.

This is the leading branch of our fishing industry, and is prosecuted more or less during the whole season by our shore fishermen. The following are the returns of this fishery for the four past years:—

	Cwts.
1893	98,871
1894	101,717
1895	76,285
1896	82,313

These fish were found scarce in the inshore waters up to the middle of September when they became more plentiful, and from that date till the end of December, there was excellent codfishing in all the districts. Why these fish continue to remain in deep water until the autumn season, is inexplicable. Some fishermen say that they are kept outside by the gurry thrown overboard by American fishing vessels. There is, evidently, better natural feed on the outside banks in mid-summer than in the inshore waters. The only way the local fishermen can overcome this is by adopting a larger size fishing craft than the average fisherman now uses.

MACKEREL.

This branch of the fisheries was the the poorest for many years in this district, as the following figures will show:—

		Lbs. preserved.
1893	12,509	11,622
1894	14,619	10,160
1895	11,348	19,900
1896	9,706	6,900

The catching of thousands of barrels of these fish by American seining vessels, while the mackerel are on their way in June to the spawning grounds, must, of necessity, bring about the extinction of these fish. In the interests of the fishery, it would be better for Canadian fishermen to allow Americans fishing privileges in our inshore waters for the concession of abandoning the destructive method of purseseining, at least until after the mackerel spawning season. By the failure of this fishery the past season, our fishermen have had their year's earnings considerably reduced.

HERRING.

The following comparative statement exhibits a considerable falling off in the pickled product, compared with the previous year:—

Bri	s. pickled.	Lbs. fresh.
1893	22,017	227,000
1894	26,670	187,000
1895	37,349	118,340
1896	30,280	126,900

The cause of the decrease in pickled fish is owing to the failure of the midsummer run of herring during the past season. Every season beginning with the month of July, a run of large, fat herring usually strike in in the bays and harbours in this district. This year these fish did not make their appearance in such large schools as the previous season.

While the fishermen were as fully prepared for this fishery as in former years,

only a few barrels were captured in any of the districts.

Local fishermen contend that lobster traps frighten this run of fish from the coast. It does not seem, however, that this opinion of the fishermen is correct, as the spring run of herring, which is much inferior in all respects to the mid-summer run, made their appearance in our bays and harbours this year in great abundance. If traps would affect one run they would do so in the case of the other.

I am more inclined to believe that climatic changes have more to do with directing the course of the mid-summer herring than anything else. These fish are sensitive to such changes. In stormy weather they will leave the shoal waters of

bays and harbours and take to the bottom where the water is deep.

The cause for the failure of the July run of these fish is to be found, I think, in the fact that about the time they were approaching the coast a heavy north-east storm diverted them from their usual course, thus depriving our local fishermen of one of the most remunerative branches of our fisheries.

SALMON.

As will be seen by the following figures this branch of the fisheries shows the largest percentage of increase during the past season, and this increase is made up by each of the four counties:—

		Lbs. fresh and
	Brls. pickled.	preserved.
1893	254	124,873
1894,		88,834
1895		65,071
1896	408	120,276

Salmon were more plentiful from the third week in June until the last of

October on the coast this year than in any previous season.

Most of the fish were taken by gill-nets in the coastal waters and in the inside tidal waters of harbours and bays. After the close season opened and when the autumn rains began, these fish entered the spawning grounds of upper waters in large numbers.

HALIBUT.

Compared with the past three years the returns this season exhibit more than an average catch in this branch:—

	Lbs.
1893	26,880
1894	119,693
1895	96,664
1896	111,312

I have no doubt this branch of the fishery is capable of much greater development. These fish are only sought after for local consumption and for this limited market the fishery is only prosecuted by a few fishermen. Halibut were found more plentiful on the inshore banks this season than the previous one.

ALEWIVES.

With the exception of the quantity of alewives consumed by the fishermen and farmers living adjacent the fishing districts, these fish are used more than any other for bait, particularly lobster bait. The following are the returns for the past four years:—

	Barrels.
1893	5,071
1894	4,967
1895	2,467
1896	2,541

It will be observed that there is a considerable decrease in the past two years compared with the two previous years. This branch was prosecuted fully as vigorously as in former years, but the fish did not enter the fresh water streams in as large numbers as they did previous to 1895. The cause of this is inexplicable.

OYSTERS.

In each of the four counties of this Island are to be found oyster beds, but the most extensive beds are situated in the basin of River Dennis in the county of Inverness. I fear that unless something is done to propagate the beds, as a commercial industry in a few years it will cease to exist. There is a decrease in this fishery this season of 318 barrels. This decrease is owing solely to the condition of the beds, oysters being found small and scarce. In a previous report I recommended an examination of these oyster grounds by the expert of the department, and I hope the department will order such an examination next season, with the view of cleaning up the grounds and transplanting.

MINOR FISHERIES.

While the smelt fishery shows an increase over 1895 of 22,672 pounds, the trout statistics exhibit a decrease of 19,115 pounds. About seventy per cent of the smelts caught were forwarded to the American markets, but in the case of trout they are

of no commercial value, as none are exported.

All of the latter fish taken are used for home consumption and the method of fishing is solely by angling. Therefore it is most difficult for the officers in gathering statistics to get accurate information respecting the quantity of fish caught during the season. This is not the case with the smelt fishery, as these fish are exported by rail, and it is easy to find out the extent of each season's operations. With regard to both of these branches I think these fish are fully as plentiful to-day in our rivers and streams as they were ten or fifteen years ago.

REGULATIONS.

The fishery regulations were enforced as vigorously as in any previous year. Where violations have come to my notice I took immediate steps to punish the guilty parties. The fishery courts are looked upon with terror by poachers and are the means of preventing many violations.

SYNOPSIS OF FISHERY OVERSEERS' REPORTS FOR THE ISLAND OF CAPE BRETON, 1896.

CAPE BRETON COUNTY. .

Overseer Francis Quinan, of Sydney, reports an increase of 980 cases of lobsters as a result of the operations of four factories, an increase of two factories over the previous year. The lobster fishery opened well, but owing to storms in June and to the scarcity of fish towards the close of the season, the fishery was not so profitable to those engaged in this particular industry, as in the previous season. In the other branches he reports a large falling off in the catch of mackerel and summer herring, and a slight increase in cod, haddock, salmon and alewives. The fishery

regulations were well observed during the season.

Overseer Alexander McDonald, of East Bay, reports an increase in spring mackerel and a total failure in the fall fishery. Also an increase in the catch of cod, haddock and trout, and a decrease in herring, lobsters and alewives. The lobster fishery suffered from severe weather, causing considerable destruction to lobster gear. In the early part of the season cod and haddock were found scarce on the inshore banks, but towards autumn these fish became more plentiful and good hauls were made. A large number of trout came into the various streams in his district this year from the sea, owing to there being more rain and consequently more water in the streams than in previous years. The salmon fishery in the lake waters is not vigorously prosecuted, and on the sea coast the catch was light. Excepting what is used for home consumption, the fish are marketed in Canadian cities, Halifax taking the largest quantity. The regulations were well observed throughout the season.

Overseer William Burke, of Mira Ferry, reports an average catch of cod and haddock, and a decrease in mackerel and herring. This decrease occurred in the leading fishing districts of Little Lorraine, Bauline, Mainadieu and Mira Bay. In all these districts the returns exhibited an increase in salmon. In the lobster fishery there were five more canneries operated than on the previous season, and the increase in catch corresponds to the increase in the number of canneries. This increase he accounts for by the fact that a considerable quantity of lobsters were caught in other adjacent districts and carried to these canneries. In all the other branches the catches are about the same as in the previous year. He is of the opinion that the presence of dog-fish has had a good deal to do with the falling off in the catch of mackerel and herring. Dog-fish were more numerous in the coastal waters of his district than in the previous year. Of all the catches, about 60 per cent of the salmon, 20 per cent of codfish and herring, 5 per cent of the mackerel, all the alewives, trout, eels, smelts, halibut and oysters are used for home consumption, and the balance shipped to Halifax for exportation. He reports that the close seasons were usually well observed.

Overseer Richard Hickey, of North Sydney, reports that with the exception of herring and mackerel, all other branches of the tisheries prosecuted in his district show an increase in catch over that of the previous year. The decrease in the herring fishery is owing to the total failure during the past season of the mid-summer run. Various reasons are advanced by local fishermen for the non-appearance of these fish this year in the coastal waters and bays as in former years, but it is impossible to attribute it to any local or avoidable cause. The shortage in the mackerel catch can be attributed to two causes, viz., scarcity of fish and a less vigorous prosecution of the fishery than in former years. The growing scarcity of those fish from year to year has been so marked that now the local fishermen will not go to the expense of fitting out for this fishery but to a very limited extent. The cause of the scarcity of mackerel is attributed solely to the destructive method of purse-seining by United States fishing vessels. The fish that escape the seining vessels are frightened off the coast, hence very few mackerel now come within the

reach of our local fishermen.

The cod and haddock fisheries both show a slight increase in catch over last year, but owing to low market prices, the result of the season's work has not been by any means as profitable to the fishermen as was the preceding year. The oldest fishermen of the district never remember the prices for this staple article of fish product ruling so low as during the past year. This may be attributed chiefly to the fact that large quantities of bounty-fed fish from French St. Pierre were this year disposed of in our provincial markets. This is a new hardship that our fishermen are compelled to face, and it is feared that if the evil continues the codfishing industry in Cape Breton will become so unprofitable that a very large number of those now engaged in this occupation will be obliged to abandon it entirely and take up other pursuits. The lobster factory in his district last season did a very successful business. The weather during the greater part of the season was most favourable for those engaged in the industry and both fishermen and packers enjoyed a successful season. Next year three factories instead of one will be in operation in his district. The lobster fishery is now one of the most important branches of the fisheries prosecuted in his district. The fishermen are paid cash for lobsters delivered at the canneries and this induces quite a number to take up this particular branch, especially as the decline in the market prices of dry and pickled fish of late years has made the cod and herring fishery less remunerative than in former years.

The minor branches of the fisheries were profitably prosecuted in his district last season and all show good returns compared with the several preceding years. The fishery regulations were well observed. No violations were reported, and he is pleased to say that the fishermen of his district are well disposed to be governed

by the regulations.

INVERNESS COUNTY.

Overseer D. F. McLean, of Port Hood, in his returns for 1896 gives an increase catch of herring, cod, hake, haddock, salmon, trout, eels, squid, halibut and bass; and decrease in lobsters, alewives, and mackerel. The only cause he can assign for the decrease in the last three named branches was scarcity of fish. In his district the fishery was vigorously prosecuted in each branch during the year, and as a result large catches of herring, cod, hake and haddock were made. He estimates the quantity of fish used for home consumption at about 15 per cent of the whole catch; about 50 per cent sold in Canada, and the remaining 35 per cent exported to Europe and the United States. Five lobster canneries were in operation in his district during the past season-all operating under licenses. The Government labels were affixed to each case packed, and initialled in almost every instance. Dogfish were on the coast in abundance, particularly during the autumn fishery, and as usual doing considerable damage to the fisheries and fishing gear. The close seasons have been well observed throughout the season. The Saw-dust Act was duly observed so far-a non-compliance with this particular statute would prove injurious. There are no fish-ways in the district under his supervision, nor does he consider it necessary to have any therein. One trap-net under license was set at Port Hood this year; fishing in connection therewith was a total failure. The operations during the season resulting as follows:-

Kind of Fish.	Quantity.	Value.
Mackerel Herring Cod and Haddock Squid	11 66	\$ cts. 24 38 7 20 4 25 22 60
Total	-	\$58 43

The cost of the license was \$40.00, so that trap-net fishing was not a paying speculation in his district for the year; while other net fishing, trawl fishing, and hand-line fishing proved quite renumerative to fishermen for the season just closed.

Overseer James Coady, of Margaree Forks, reports an increase in salmon in his district of 16,685 lbs. The increase he attributed to the season being particularly favourable, the water being high in the rivers and salmon were found in abundance in the tidal waters at the mouths of rivers where they were taken by nets. Large numbers ascended to the upper waters of the rivers, particularly at Margaree. He also reports an increase in trout. The mackerel and herring statistics give a decrease of over 50 per cent as compared with the previous year. The cause for this decreased catch was scarcity of fish. There is a slight decrease in lobsters, but to those engaged in this branch the fishery was more remunerative than in the previous year. The cause of the decrease was owing to their being one factory less in operation. In other branches of the fishery the catch was about an average one. The close seasons were fairly well observed; those found violating the law were summoned before the fishery court and convicted. About 15 per cent of the fish taken was used for home consumption, while the balance was marketed at Halifax.

Overseer David Ross, of North East Margaree, reports a decrease in the catch of all the leading branches. In herring there was a decrease of 871 brls., in mackerel of 1,557 brls., a decrease in the catch of cod of 2,088 qtls., in lobsters of 1,744 cases. As the fishery in all its branches was fully as vigorously prosecuted as in former years, he can only account for the decrease by the fact that the fish were scarcer during the season on the coast. The surplus of codfish and herring were marketed in Canada, while the entire catch of lobsters and mackerel were exported to the United States. The violations of the regulations were promptly reported to the

Inspector, and the accused convicted in fishery court.

Overseer Lewis McKeen, of Mabou, reports an increased catch of cod and haddock in his district over the previous year. In the Autumn months fish were exceptionally plentiful owing to the abundance of squid. The mackerel fishery was a failure. This fishery has been falling behind year after year, so that during the past two years the local fishermen paid very little attention to its prosecution. Herring, during the spring and mid-summer months was a failure, but towards autumn this fishery improved and good hauls were made. Lobsters appeared on the coast earlier than usual, the first catch being on the 27th of April and up to the 25th of May this fishery was fairly good, but during the month of June and up to the 10th of July, lobster fishermen were unable to prosecute this branch of the industry successfully owing to the scarcity of bait. The returns show, however, an increase over the previous year of 18,432 lb. cans. This increase may be attributed to the fact that two more canneries were operated. In the first part of the season the salmon fishery opened well with these fish unusually plentiful on the coast, but stormy weather in July did much damage to nets and thus interfered with the fishery. Trout, smelts and eels were an average catch and were used for home consumption. Referring to the regulations, Overseer McKeen states that the guardians find it difficult to prevent the Indians from poaching. He thinks that guardians should be provided with dark lanterns to detect poachers at night.

Overseer William Aucoin, of Eastern Harbour, reports a decrease in the codfishery, mainly owing to unfavourable weather. In the first part of the season the lobster fishery was not vigorously prosecuted owing to stormy weather, but towards the close of the season this fishery improved. The salmon fishery was an average one. The products of the fisheries which were not used for home consumption were marketed in Canadian and foreign markets. The regulations were well observed.

RICHMOND COUNTY.

Overseer Duncan Cameron, of St. Peters, reports that during the fishing season of 1896 there were 3 vessels and 68 boats, with 103 men more, engaged in the fisheries than in the previous year. Notwithstanding this the increase is only noticeable in the catch of 1,025 brls., of herring, 363 brls. of mackerel, 11,900 lb. cans of lobsters and 700 qtls. of haddock. The regulations were well observed.

Overseer Alfred Lenoir, of Arichat, reports a decrease in the fisheries in his district over the previous year. The lobster fishery opened well and continued good during the months of April and May, but in June and July lobsters became scarce and many taken were found soft shelled. Most of the factories closed in June. The returns exhibit a considerable decrease. The spring mackerel fishery was a total failure and only about fifty barrels were taken in the fall in his district. The mid-summer or July herring fishery was better than last year, but the August and September fishery was light. The cod and haddock fishery was an average catch. This branch of the industry is prosecuted by the fishermen throughout the season. The local fishermen attribute the failure of the mackerel fishery to destructive purse seine fishing. Owing to the decreased catch and low price of fish, the fishermen are not so well provided for a long winter as in previous years.

Overseer Arthur Brymer, of L'Ardoise, reports an increase of the following branches in his district over the previous year, viz.: mackerel, codfish, halibut, pollock, salmon, lobsters, alewives and eels; and a decrease in herring and haddock. He also reports an increase in the yield of fish oil of 379 gallons. He assigns the decrease in herring to the presence of lobster traps during the herring fishing season. Codfish were plentiful, which accounts for the increased catch. The increase in the lobster yield is due to there being two additional factories operated. There are two

fish-ways in good order and no saw or grist mills.

VICTORIA COUNTY.

Overseer Chas. L. Campbell, of New Campbelton, reports a fairly good fishing season in his district. There was an increase of 45 brls, pickled salmon, 2,460 lbs. canned salmon, and 1,320 lbs. of fresh salmon, also 275 lbs. herring, 34,558 lbs. cans of lobsters, 38 cwt. of hake, 16 brls. of eels, 1,150 lbs. of trout, 5,790 lbs. of halibut, and 138 brls, of squid; and a decrease of 592 brls, of mackerel, 95 cwt. of codfish, 770 cwt. of haddock, 85 brls. of alewives, and 20 brls. of oysters. Though there was an increase in herring, they were mostly spring herring, and the greater portion of them was used as bait by lobster fishermen. The midsummer herring seems to have forsaken the shores, very few having been taken this season, and in some places none at all. Many fishermen are of the opinion that they are frightened off by the number of lobster traps that line the shore. He is unable to assign any direct cause for their not appearing as in former years. Salmon were more numerous, especially at Middle Head, where quite a number of small sized fish were caught. This is attributed to the salmon fry which had been placed in the Clyburn River from the Sydney Hatchery. There has been an increase of 88 per cent in the catch of lobsters over last year. This branch of the fishery is steadily increasing and is now one of the most remunerative for the fishermen. There were seven canneries in operation in his district during the past season. Codfish show a slight decrease. In the early part of the season these fish were very scarce on the shore banks, and at one time it was feared that cod fishermen would not be able to procure their supplies for the winter, but the fall fishing was excellent, though prices ruled low. Haddock also show a decrease; the catch being about half as large as last year. Dogfish were again very numerous, much to the detriment of the fishermen, who were in many cases compelled to take their nets ashore to save them. These fish drive off the other kinds of fish from the inside grounds. More salmon and halibut were canned this year than formerly. This branch is steadily increasing. All the herring taken this year were used for home consumption and bait. About 90 per cent of the season's catch of codfish was sold in Canada; chiefly in Halifax and North Sydney. All the catch of lobsters was shipped to Halifax. The close seasons were well observed. There are no mills or fish-ways on any of the rivers or large streams in his district. There were two fishtraps in operation at Black Head, Englishtown, this season. They were not very remunerative to their owners.

Overseer William Hellen, of Cape North, reports an increase of 148 brls. of mackerel over the previous year. These fish were very plentiful in August and first

of September in Aspy Bay and Bay St. Lawrence. They were exceptionally large, averaging 130 to 140 to a barrel. He also reports an increase of 8,154 lbs. cans of lobsters. This fishery was more vigorously prosecuted last season than during the past few years. Salmon also were more plentiful and the returns give an increased catch. There was a decrease in the catch of cod of 545 cwts. This branch of the industry was not so vigorously prosecuted in June and July as formerly. The herring fishery in his district was a total failure and the fishermen attribute this failure to the presence of lobster traps in the water. The halibut and haddock returns give a slight increase over the previous year. There were 220 more seals killed in his district by shore fishermen than last season. Dogfish made their appearance on the coast and as usual were destructive to fishermen's gear. Their presence militated particularly against the fall mackerel fishing, as fishermen would not put their nets out while they were on the coast. About 90 per cent of the season's catch of fish was marketed in Canada; the remainder being used for home consumption. The fishery regulations were well observed. The only cases which came to his notice were reported and the offenders summoned to the fishery court. The saw-dust regulations were observed. There are no fish-ways in his district, and none are required.

Overseer Daniel McCharles, of Middle River, reports an increase in the catch of salmon, herring and cod; and a decrease in mackerel. The other kinds of fish were about an average catch. About 75 per cent of the season's catch of fish was exported to Halifax and the balance used for home consumption. There are no fish-ways in

his district, and the saw-dust regulations were well observed.

I have the honour to be, sir,
Your obedient servant.

A. C. BERTRAM,
Inspector of Fisheries.

DISTRICT No. 2.

ANNUAL REPORT OF THE FISHERIES OF DISTRICT No. 2, OF NOVA SCOTIA, COMPRISING THE COUNTIES OF ANTIGONISH, COLCHESTER, CUMBERLAND, GUYSBORO', HALIFAX, HANTS AND PICTOU.

Pictou, 2nd January, 1897.

Hon, L. H. DAVIES,
Minister of Marine and Fisheries,
Ottawa,

Sir,—I have the honour to submit my annual report of the fisheries in District No. 2, province of Nova Scotia, together with tabulated returns, showing the quantities and values of each kind of fish caught, as well as comparative tables showing the increase and decrease of the catch of each kind of fish.

The estimated value of the total catch for the past season is \$1,245,463, as compared with the estimated value of the catch for 1895 (\$1,429,782), exhibits a

decrease of about 13 per cent.

Glancing at the returns for this district from the year 1876 to the present, I

find that in none of the intervening years has the yield ever been so small.

The decrease, compared with 1895, is chiefly in the herring fishery, the increases and decreases in the other fisheries about balancing.

·Of the anadromous fishes the fluctuations are as follows:

Salmon, a	decrease	of		9	per cer	ıt.
Shad,	do			13	do	
Smelts,	do	*** ***	. ₂₀₀ ga - mesannan, manekan membanka	8	do	
Alewives	an incre	ase of		8	do	
Of the deep-se	a fish, the	e catch	of			
Halibut s	hows a d	ecrease	of	30	per cer	ıt.
Cod	do an i	ncrease	of	1	do	
Hake	do a d	ecrease	of	30	do	•
Pollock	do an i	ncrease	of	33	do	
Haddock	do	do		75	. do	

Comparing the catch of the whole cod family with that of last year, there is an increase of about 13 per cent.

SALMON.

On the Atlantic coast, and rivers flowing into the ocean, the returns show an increase of 30 per cent, while in the Bay of Fundy waters of the district there is a decrease of 36 per cent. On the Straits of Northumberland the catch is nearly equal to that of last year.

In the protection of this fishery the following seizures were made: Five nets by the guardians on River Philip, Cumberland; one net by the guardian on Waught River, Colchester; one net by the Guardian of Middle River, Pictou, and two per-

sons convicted of illegal fishing.

One net by the guardian on East River, Pictou; one net seized by the guardian and one person fined for illegal fishing by the guardian on Sutherland River, Pictou.

One large net seized by the inspector in the Straits of Northumberland.

It may be well to record the fact that during the months of October and November, owing to heavy rains, the rivers were kept brim full, and the spawning salmon could not easily be molested; it is, therefore, expected that the results will be beneficial to the future of the fishery, particularly if May and June, of the year 1897, have the usual rainfall.

SHAD.

There is a decrease of ten per cent from last year's catch in this fishery—ninetenths of all these fish taken in this district are from the Bay of Fundy waters,—the returns since 1889 from that portion being as follows:

1889	535
1890	750
1891	1178
1892	1811
1893	7.16
1894,	
1895	1185
1896	1079

Twenty years ago the average catch of shad from the same locality was about seven thousand barrels per annum.

Of the 1,079 barrels returned this season, 41 barrels were caught in the Shubenacadia River during the spawning season of the fish

ALEWIVES.

The returns show an increase over the catch of last year of eight per cent, but that was below the average. The catch of the present year is about an average for the past ten years.

HERRING.

There is a decrease of about forty per cent from the catch of last year.

The catch of 1895 was the largest since the district was set off; the catch of 1896 is the smallest.

MACKEREL.

There was a good catch of spring mackerel, particularly along the Guysboro' coast, but very few were taken in the fall. The result as a whole has been an increase over last year's catch.

LOBSTERS.

There is a decrease of 15 per cent compared with last year, while the number of traps set was about 15 per cent more than was used for 1895.

This is the smallest yield of any year since this district was set off.

The decrease was chiefly on the Atlantic coast fishery; on the Straits of North-

umberland the yield was about the same as last year.

There is one factor which requires establishment with regard to this fishery, namely, the extent of the coast waters which is their habitat. I have been credibly informed that they are to be found 40 and 50 miles from the coast, and if such be the case; and there are the same relative quantities as frequent the shores; then the future of the fishery is not so precarious as some suppose, for it is seldom that traps are set at a greater distance than three miles from the coast.

From the reports of the overseers, I believe that the close season has been bette

observed during the past year than it has since the establishment of canneries.

The following is a synopsis of overseers' reports:-

Overseer John McDonald, of Antigonish, says that owing to heavy storms at the beginning of the fishing season many of the fishermen lost all their traps and before they were replaced the best run was over.

Of the herring fishery he says that had the prices been more remunerative double the quantity would have been taken, but when the fish come on that part of the

coast they are not usually fat.

The very few mackerel taken were by large boats well supplied with many

good nets which they set five and six miles from land

The catch of cod was small, and thirty per cent of those taken were caught in

the month of November.

Some of the fishermen have provided large boats for the prosecution of the hake fishery which enable them to go many miles from land, so that this year the returns from this fishery are larger.

The catch of haddock was equal to that of last year.

Alewives were remarkably plentiful during the season that they ascend the rivers of the county.

He urges the construction of fish-ways upon the dams in the rivers of the

county.

Overseer McQuarrie, of Sherbrooke, Guysboro', says that the increase of 50 per cent in the catch of salmon, was owing to the fish being more numerous, for the means of capture and the efforts put forth were the same as usual.

Summer herring did not appear, and the few that were to be taken in the fall were not looked after because they are not so good as those taken in the summer,

and the prices do not repay the labour and material.

Codfish seemed as plentiful as usual, but the weather was extremly unfavourable

until late in the fall.

The lobster regulations are the most difficult to enforce, but good work was done by the "Vigilant" (cruiser) some times at the risk of the life of the crew.

Quite a number of fish-ways are much needed in his division, and he urges their construction as indispensable—indeed without such fish-ways the other part of the

protective service seems out of joint.

He urges the clearing of a brook at Smithfield; this matter was noticed in his report last year. The sum of twenty dollars would be necessary to clear the debris in the river and allow fish access to their spawning grounds.

Overseer Gaston, Halifux County, reports a slight increase in codfish and salmon,

but a decrease in herring, mackerel, haddock and pollock.

An average catch of lobsters, not so many canned, but more shipped alive.

Only one case of illegal fishing came to his knowledge, he searched the premises of the party suspected but found nothing to convict. A number of traps were found set and destroyed, but the owner could not be found; he destroyed the traps.

There are two fish-ways in his division in good repair, another requiring repairs.

Overseer George Rowlings, Musquodoboit Harbour, says the catch in his division, was about the same as last year excepting herring, in which there was a considerable shortage. After June, fish were scarce until late in the fall. Cod were unusually

plentiful from November 10th to December 10th.

The close seasons were well observed. That of the lobster, having been better observed than any year in the history of the fishery. The chief difficulty is the live lobster trade, some fishermen have their traps in the water before the season opens in January, and the cruisers are not on the coast. If winter fishing is allowed, there should be cruisers on the coast until the 31st of December.

Overseer J. H. Bartlett, Terrence Bay, says the mackerel fishery in that part of the county has been a failure, chiefly because they did not in the fall "trim the shore," the fishermen in that locality depending chiefly upon drag seines to take this fish. There were evidently large quantities of mackerel, but for this reason very few were taken.

Herring were plentiful in some localities, but poor.

Salmon were more plentiful than for a number of years past.

Lobsters are decreasing, and it will not be many years before they are extinct. There is considerable winter fishing upon that part of the coast, so that the season is too long, the fishery being vigorously prosecuted from 1st January to 1st July.

Taking the year as a whole, the fishery business has been deplorable; on parts

of the coast it has been the worst in the recollection of the oldest fishermen.

Numbers of families moved to the city to get through the winter.

Dogfish continue along the coast, not only eating up what fish may get into the nets, but destroying the nets also.

.About 250 barrels of "whiting" were taken at Terence Bay for lobster bait, Overseer J. R. Mosher, of Hants County, reports there were more shad caught than last year, but it was owing to a more vigorous prosecution of the fishery.

There is a decrease in the shad fishery every year, owing to the spawning shad not being protected in the spring.

Overseer J. W. Davison says: For a number of years he has been forwarding discouraging reports as regards the catch of shad, the principal fishery in that locality, and he regrets that he has no better story to tell for the past season, this year's catch has fallen considerably short of last year.

Salmon were not as plentiful as last year. He believes that the decrease in shad is almost altogether owing to the fact that the gravid fish are caught in the Shubenacadie River at the time they are frequenting those waters for spawping

purposes.

There should be a close season for shad at the time the fish are going up the

rivers to spawn.

Overseer Pollock, Colchester, says that in the Stewiacke River (a tributary of the Shubenacadie) more shad and salmon were caught than last year, but not so large a catch of alewives. The fish were plentiful, but the demand (for bait) was not as

great as other seasons.

Overseer McQueen, Pictou, says herring and cod were an average catch, but that of salmon was less than in 1895. There were several attempts at poaching salmon in the close season on Sutherland River, and he gave it his personal attention; succeeded in identifying and fining one person for fishing with torch and spear. The guardian took a net set in the river for salmon.

Overseer McPhie says there was a decrease in the catch of salmon.

There was some peaching of salmon when in the rivers by persons disguised at

night, but they escaped arrest and identification.

Salmon have little chance of getting past the new wing dam, lately constructed on Barneys River.

> I have the honour to be, sir, Your obedient servant,

> > ROBERT HOCKIN, Inspector of Fisheries.

DISTRICT No. 3.

ANNUAL REPORT ON THE FISHERIES OF DISTRICT No. 3, OF NOVA SCOTIA, COMPRISING THE COUNTIES OF YARMOUTH, SHELBURNE, QUEEN'S, LUNENBURG, KING'S, ANNAPOLIS, AND DIGBY, FOR THE YEAR 1896, BY INSPECTOR L. S. FORD.

MILTON, 2nd January, 1897.

To Hon. Minister of Marine and Fisheries.

SIR,—I have the honour to submit the following annual report of the fisheries of District No. 3, province of Nova Scotia, for the year ending 31st December, 1896, together with the usual fishery statistics and reports of the officers under my supervision.

The total value of the catch of fish in my district amounts to \$3,781,884, which,

I am pleased to report, shows an increase over that of last year, as follows:

Value of product,	1895 1896	\$3,715,573 3,781,884	
An incre	ase of	\$ 66,311	

This surplus, though comparatively slight, is encouraging, as it is general, and not ascribed to any unusual improvement in one species of fish.

MACKEREL.

As a rule, this fishery was a failure. For some cause not yet apparent, parts of our coast, where these valuable fish once seemed abundant, are no more frequented by them. The importance of this fishery to our province should give its comparative failure a prominent place in the consideration of your department.

COD.

Speaking generally, the Grand Bank fishermen have done well, but the boat

shore fishing has barely held its own.

It cannot longer be ignored that the shore fisheries are falling off year by year. Many more or less plausible reasons are given for this, but the most probable is that our bays and harbours are over-fished. That is, the natural increase of the fish does not meet the annual drain by capture and waste of ova.

SALMON.

The salmon yield was above the average catch, and I have good reasons to state that, with continued proper protection, our rivers and lakes will again teem with

that sporting fish.

The mill-owners' claim, "that the lumber interest is of more importance than the salmon and gasperaux fisheries," should not be entertained for a moment. There is no necessity for the destruction of either. Except in a very few rivers where the saw-dust covers the spawning grounds, it, in my opinion, does the fish no injury. Had the mill-owners allowed these fish free passage through their dams, the saw-dust question, as detrimental to fish culture, need not have been raised to-day.

GASPERAUX AND SHAD

Have yielded an average catch. The gasperaux labours under the same disadvantage as his aristocratic neighbour the salmon. Both have been debarred from an entrance to the lakes by mill dams, and, consequently, have left some of the rivers altogether. Stringent measures are being used to get them back again, with good effect, in some cases.

HERRING.

The scarcity of herring the present year will, no doubt, tend to increase their price, when more of them will be caught the coming season.

LOBSTERS.

The lobster business, especially the exportation of live fish, has been vigorously prosecuted. The county of Shelburne alone exported over 3,000 tons of live lobsters to the United States. It must be apparent to all engaged, that this important industry is not going to stand such a strain for many years longer.

The catch averages year by year should not deceive us. It takes more traps, more men and more area each year to produce the same amount of fish. Despite all the care taken by the officers, large numbers of short lobsters are destroyed by the fishermen.

Heroic measures will have to be adopted if this important business is to be

retained as one of the commercial interests of the province.

I would again call the attention of your department to the necessity of better regulations in regard to the American lob-ter smacks, that come into our small harbours, and buy everything that comes, regardless of size or sex. In my opinion they should not be allowed a clearance without a certificate from a fishery officer. A small sailing craft, that could be run by a couple of hands, placed at the disposal of the officers, in some convenient harbour, would be of great help to watch those parties.

FISH-WAYS.

Many of our rivers are now fairly filled with passes, but there are several still unprovided; notably, the east branch of Bear River, Salmon River and the Meteghan, all in Digby Co.

Gordon River, Shelburne, is to have one on an entirely new model, built of stone

and cement, of which I shall report fully when completed.

On the whole, our fisheries have been fairly remunerative this season, but more stringent regulations are needed in almost every branch if the industry is to be permanent, and not destroyed, as threatened at present.

SYNOPSIS OF OVERSEERS' REPORTS.

LUNENBURG COUNTY.

Overseer David Evans, of Chester, states that the mackerel fishery was almost a total failure. This fish did not enter the bays and harbours of this district, but passed the coast beyond the reach of our fishermen. The catch of herring exceeds the very large catch of last season. The run of salmon was larger than last year, and more were captured. The increase in the catch of cod is largely due to the failure of the mackerel; the disappointed fishermen then turning their attention more to cod-fishery. More lobsters were packed than last year, owing to the large price paid to the fishermen by the packers. The close season was fairly well observed.

Overseer W. M. Solomon, of West La Have, reports the catch of salmon as far exceeding that of previous years, owing no doubt to the manner in which the streams have been protected. Trout, alewives, whitefish and smelts gave an average yield. The catch of deep-sea fish, including cod, haddock, pollock and halibut exceeds that of last year, but that of hake is so slight that it is scarcely worth mentioning. The North Bay fishermen of this district rather better succeeded than last year. Our Labrador fleet did not fare so well, many of them having missed by going too far north. Mackerel and herring have been unusually scarce in this district. Last year the catch was small, but this season it is still worse. The lobster industry has been successful, and the regulations governing the same fairly observed. The rivers under his charge are in a more satisfactory condition than ever before. All the fish-ways are in a fairly good condition, excepting a few which will be looked after during the dry season next summer.

QUEEN'S COUNTY.

Overseer J. N. Freeman, of Liverpool, reports a very unfavourable fishing season. The hook and line fish being particularly below the average. Herring have unusually avoided our harbour; and the appearance of mackerel barely enough to assure our fishermen that this valuable fish has not altogether deserted our waters. Salmon were abundant compared with previous years. Alewives show a reduced yield.

SHELBURNE COUNTY.

Overseer W. J. McGill, of Shelburne, states that the catch of codfish is better than that of last year. The bankers did extra well, and the returns will show quite an increase. Mackerel showed no improvement on last year. Herring about half an ordinary supply. Lobsters show an increase over last year, both as to exportation of live fish and the canned article. There is a heavy drain on this fishery, but it appears to hold its own fairly well. Salmon and alewives show rather an improve-

ment over the previous season.

Overseer E. S. Goudey, of Barrington, writes: Only one vessel from this district fished on the banks and secured a fair supply of fish. The shore fishermen did fairly well, but scarcity of bait prevented better returns. Herring were plentiful, and large quantities were caught and sold at remunerative prices. Salmon were quite plentiful and good prices were obtained for them. The trap-net men did a good business in mackerel this year. These fish shipped in ice were in great demand at fair prices. Lobster fishing was very profitable to the fishermen, larger quantities were taken, and the prices averaged more than any previous season. The law was well observed.

YARMOUTH COUNTY.

Overseer John A. Hatfield, Argyle, says that nearly all kinds of fishing gave a fair result. More mackerel were caught in traps than last year. Salmon also yielded more. An increased quantity of lobsters at better prices is reported. Law fairly observed where close watching prevailed. River fishing was fair and seems improving.

DIGBY COUNTY.

Overseer T. C. Shreve, of Digby, reports the eatch of fish this year better than in previous years. The fishing was vigorously prosecuted, and the fishermen were rewarded with larger returns of their labours. The product of cod and haddock was about equal to that of last year, but that of hake and pollock were largely in excess. The improvement is owing to a better supply of bait and more favourable weather. Sixty per cent of the fish caught are exported to foreign markets, 35 per cent are disposed of in Canada outside of this district, and the remainder used for home consumption. The fish-ways in this division are not as satisfactory as they should be. The inspector has suggested some changes, which he hopes to see carried out next summer. The lobster business was successfully prosecuted both as to the exportation of live fish and the canning industry. It seems to be the wish of all the fishermen throughout this district to raise the standard of legally caught lobsters from 9 to $10\frac{1}{2}$ inches. Strongly recommends on behalf of the fishermen that this change should be made.

ANNAPOLIS COUNTY.

Overseer W. M. Bailey writes: In vessels, boats and men engaged in 1896, there is very little change from last year. Gill-nets, weirs and lobsters about the same. Salmon and herring show improvement. Cod an average yield. Hake, haddock and pollock an increase; other fish nominal. On the whole the fishery of his district has been fairly successful.

KING'S COUNTY.

Overseer James S. Miller, of Canning, reports that while salmon fishing was very good, the shad fishery was a comparative failure. Line fishing for cod, haddock, &c., has been very good all through the season. Herring was plentiful in some places and scarce in others, for some reason their distribution was very unequal. We have no lobster fishermen in this county; but vessels from down the bay come here to engage in that fishery to some extent. In the basin of Minas all kinds of fishing were poor, hardly any shad were caught.

All of which is respectfully submitted.

L. S. FORD,

Inspector of Fisheries.

NOVA SCOTIA—DISTRICT No. 1.

RETURN showing the Number and Value of Vessels and Boats, and all Fishing Materials, with the Number of Men employed in the Fishing Industry, as well as the Kinds and Quantities of Fish caught in the Province of Nova Scotia, for the Year 1896.

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	'usear a	Lobsters alive o			27
	mi ,bəv	Lobsters preser		81504 36624 50400 58416 58416 59510 31624	448062
	or pre-	Mackerel, fresh served, in can		0	000
	l, brls.	Mackerel, salted		044	1581
Fish	.sql ,b	Herring, smoke			5000
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	ni bəv	Salmon preser		400 1386 1400 1386 1400 1386 1450 145	2816
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	Ve	Tonnage.		32	
_ \		.oV			. 12
	DISTRICTS	Number.	Cape Breton County,	1 From False Bay Beach to Long Beach 2 From Long Beach to Glace Bay and Bridgeport. 3 From Lingan to South Bar and Sydney River. 4 Sydney to North-west Arm and Sydney River. 5 From Grand Narraws Bridge to Christmas Island 6 Boisdale to George's River. 7 Little Bras d'Or and Boularderie. 8 Sydney Mines, Big and Little Ponds 9 North Sydney to Balls Creek. 10 Louisbourg and Kemington Cove. 11 Big and Little Lorraine. 12 Bauline. 13 Main-t-Dieu. 14 Mira Bay and River. 15 Scattarie Island 16 Gabarus, Grand Mira and Big Lake. 17 North side East Bay and Fork's Lake. 18 Benacadie, Piper's Cove and Grand Narrows. 19 South side East Bay.	Totals

No. 16, add 1 trap-net, \$300, and 2 seines 250 fathoms, \$509. Note.—No. 1, add Smelt net, \$10.

RETURN Showing the Number and Value of Vessels and Boats and all Fishing Materials, &c. - Con.

	Number.		138 + 50 00 00 00 11 11 11 11 11 11 11 11 11 11	
	TOTAL VALUE.	ets.	27220 96 2031 90 10649 61 30429 61 30429 70 22331 00 22331 00 2233	197214 63
. Jak	Seal skins, number.		700 100 100 100 100 100 100 100 100 100	850
KODUC	Fish Guano, tons.		799 : : : : : : : : : : : : : : : : : :	180
FISH PRODUCTS	Fish used as bait, bris.		32 50 50 50 50 50 50 50 50 50 50	3124
F 81	Fish Oils, galls.		850 810 170 1125 125 125 125 125 125 125 125 125 12	789 2000 1500 3 6491
	Course & mixed fish, bri			e .
	Tom Cod or Frost fish,		8000	1500
	Flounders, Ps.		1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2000
	Squid, birls.		100000000000000000000000000000000000000	55
	Shad, brils,		29 25 25 27 20 21 1 1 1 1 1 1 2 4 20 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	- I
	Eels, bris,		post : · · · ·	384
	Oysters, bris :		5 + 6 · · · · · · · · · · · · · · · · · ·	96
H.	.slrd ,esviresA		31 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	155
= = = = = = = = = = = = = = = = = = = =	Bars, Ibs.			110
KINDS OF FISH	Smelts, lbs.		2000 22000 2100 600 300 400 150 800 800 500 500 800	13500
- X	.adf ,tndillaH		31 000 45000 5000 100000 100000 100000 100000 10000 10000 10000 10000 10000	134 5390 60550 13500 110 459 53 94
	Trout. ibs.		600 600 600 600 600 600 600 600 600 600	2390
	Pollock, cwt.		05 01 08 4 0 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u> </u>
	Haddock, cwt.		180 110 110 110 110 110 110 110 110 110	364
	Hake, dried. cwt.		x - 5 x 8	53 2364
	Cod, tengues & sounds, lads,			122
	Cod. dried, cwt.		288 288 288 288 288 288 288 288 288 288	13460
	DISTRICTS.	Cupe Breton County,	1 From False Bay Beach to Long Beach 2 From Long Beach to Glace Bay and Bridgeport 3 From Lingam to South hav and Sydney Kiver 4 Sydney to North-west Arm and Sydney Foaks 5 From Grand Narrows Bridge to Christmas Isl'd 6 Boisdale to George's River. 7 Little Bras d'Or and Boulanderice 8 Sydney Mines, Big and Little Ponds 9 North Sydney to Ball's Creek. 10 Louisbourg and Kemington Cove. 11 Big and Little Lorraine. 12 Bauliné 13 Main 4-Drou 14 Mira Bay and River 15 Seattarie Island 16 Gabarus, Grand Mira and Big Lake. 16 Gabarus, Grand Mira and Fork's Lake. 17 North side Bast Bay and Fork's Lake. 18 Benacadie, Piper's Cove and Grand Narrows.	Totals
	Number.			

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.-Nova Scotia-Con.

11	l oo us	Lobsters, fre		:	:		:	:			:	:	:		:	:	:			:	: :		:		:	72		139
		Lobsters, pre Il (in cans),		44376	. 1	17520	2,000	000				:	:		20102	9111	:	:	9319	5856		24672			:	35740	21960	2916 6400 239620
		Mackerel, fres served (in c				:					:	:	:	. 6	3000	:	:	:	6100	0010				:	:	:	:	6400
Fish.		Mackerel, sal		9	9	00 9	5.50	10	10	50	100		:	:			:		48	195	000	200	100	31	21	1047	915	2916
S OF F		frozen, lbs.		10000	4000	0000	00099	0000	2000	3000	1000	:	:	:	:	:	:							:	:	:	:	480 9748 111000
KINDS OF	ed, bris.	Herring, salt		300	120	200	1040	590	2007	1060	300	1500	200	100	0	2,0	э: ⁻	:	3	140	86.	230	250	50	400	1587	580	9748
	ni bevre	Salmon, pres			:	:	:	:			:	:			480	:	.	:		:			:	:	:			081
		Salmon, fresh		200	:		2000	6000	2000		:				000		004	:	11087	Troops	1200	950		250	500	2000	4800	68535
	d, brls.	Salmon, salte		:		:	:	:				:		:	:		:							:	:	16	:	16
	vls.	Value.	69	-	120				300		150		:	-		• 0	CS S	:		:	66	20					200	2855
TS	Trawls	Number.	11.0	180	25.	30	222	000	09	40	30			:		: 1					. 00	4					20	501
FERIA	elt ts.	Value.		:			15			40	75			:			:			:							:	130
Ma	Smelt Nets.	Number:			:		10	:		20			:	:		:	:			:					:		:	09
FISHING MATERIALS.	Tets.	Value,	% ₽	3800	380	200	1800	009	1000	009	1500	4380	1830	229	280	150	140	0#		480			290			1872		24353
· [=	Gill-Nets	Fathoms.		12000	1200	2000	5500	0000	3000	1800	5000	10600	5600	1560	657	350	3000	120			006							68242
		Men.		150	40	24	115	? =	P 20	45	10	278	200	97	45	20	14	0	9.9	3 10	46	300	5	12	63	430	216	2090
AND BOATS.	Boats.	Value.	æ	1400	240	180	940	970	300	009	150	1785	1315	290	420	200	100	32		480			650		1000	0272	1121	15383 2090
AND		Number.		202	24	12	000	9 6	9 6	30,8	10	112	88	200	22	10		₹~	16	07	7 7	10	200	4	20	125	74	845
SELS		Мен.			:	:	:	:	:		16		:		:	:		:								66	:	123
FISHING VESSELS	Vessels.	Value.	*	:					:	1600	4000				:			:		:						7500	:	13100
ISHIN	Ve	. эзвипоТ		:				:	:	00	100		:	:	:	:		:		:		:				302	:	480
H		ХишЪет.		:			:		:		2		:	:	:		:	:			:	:				22	:	25
	Districts,	Zumber,	Inverness County.	1 Port Hood	2 Little Mabou	3 Seaside	4 Judique and Little Judique	o Long I oldt	7 Low Point	8 Port Hastings	9 Port Hawkesbury	10 West Bay to Malagawatch	11 Orangedale Boom and River Dennis	12 Seal Cove, Estmere and River Inhabitants.	13 Mabou Harb., Coal Mines and Ben Virrach.	14 Port Bain and Broad Cove	15 Whycocomagh.	16 Scottsville and East Lake Amslie	Marg	Portrained Librard	10 Road Cove Warsh and Whale Cove	20 Grand Plane	21 Friar's Head	22 Delanev's Cove.	23 East side Margaree Harbour	24 Eastern Harbour and Cheticamp	25 Pleasant Bay and Cape Rouge	Totals

Norm.—No. 1, add 1 trap net, \$700; No. 2, add 3 semes, 525 fathoms, \$600; No. 17, add 52 weirs, \$416.

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.-, Nova Scotia-Con.

	Total Value.	\$ cts. 26,350 64 26,350 64 7,024 80 1,780 50 1,780 50 4,499 00 6,698 00 6,698 00 8,144 50 9,10,390 68 16,739 68 16,739 68 11,728 85 11,728 85 11,728 85 11,728 85	301,966 70
FISH PRODUCTS.	Fish used as Manure, brls. Fish Gano, Lons.	30 20 10 10 50 50	60 271
SH PRO	Fish used as Bait, brls.	(600 800) (600 800)	38,4753
Fis	Fish Oils, galls.	T :	12968
	Coarse & Mixed	3800 1100	00 415
	Squid, brls. Dogfah, lbs.	180 2800 15 500 25 600 25 1100 300 300 300 25 200 500 500 417	3487 6500
	Eels, brls.	8 00 00 00 00 00 00 00 00 00 00 00 00 00	732 15 8
	Clams, brls.	မွာရွား မောင်းမှာမှာမှာမှာမှာမှာမှာမှာမှာမှာမှာမှာမှာမ	229
	Oysters, brls.	7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	786
	Alewives, brls.	200 30 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9	670
Fish.	Bass, Ibs.		400
OF	Smelts, lbs.	400 100 500 500 100 100 100 100 1	40000
KINDS	Halibut, lbs.	300 1000 250 900 170 170 182 1000 6520 2550	13992
	Trout, lbs.	2500 1000 1000 1000 1000 2500 2600 2600 1200 11200 1100 1000 1000 1	23900
	Haddock, cwt.	50 30 30 30 30 30 30 30 30 30 3	2516
	Hake, sounds,	00824 ::::::::::::::::::::::::::::::::::::	3 1625
	Hake, dried, cwt.	300 300 110 110 4 4 4 4 4 4 4 4 4 4 4 4 4	9 4418
	Cod, tongues and sounds, bris.	010 010 010 010 010 010 010 010 010 010	1 20
	Cod, dried, cwt.	2200 4000 1500 1500 2800 2800 2800 12800 11800 11800 12800 1	23511
	Number. Districts.	I Port Hood Seaside Judique and Little Judique Lorgin Son Lorgin S	Total

RETURN showing the Number and Value of Vessels and Boats, and all Fishing Materials, &c.-Nova Scotia-Con.

	l resh	Lobsters, alive of tons.		<u>ε</u> εε	- co
SH.	ni bəvı	csus, lbs.		10 73248 200 45736 115 32448 10 28320 10 35904 110 35904 110 35904 110 36900 110 36900	014680
OF F1	d, bris.	Mackerel, salte		410 200 150 150 400 1118 110 110	4118
KINDS OF FISH.	, alrd ,	Herring, salted		2550 1500 1880 320 320 3300 175 250 250 250 250 250 250 250 250 250 25	12905 4118 514680
H	sdf,99i	Salmon, fresh in		8 8 11506 19 5000	6750
	brls.	Salmon, salted,			2195 27
	Trawls.	.sulaV		118 1025 75 475 58 375 111 110 20 210	219
	Tra	Nuniber.			282
ALS.	Weirs.	-onlaV		22 : : : : : : : : : : : : : : : : : :	80
ERL	M _e	Zumber.		4 : : : 4 : : : : : : : : : : : : : : :	5
FISHING MATERIALS.	Smelt- Nets.	Value.		900000000000000000000000000000000000000	725
HING	N. S.	Number.		6 4	47
) H	Tets.	Value.		14200 4400 8000 4700 4700 1725 11500 2175 1800 1520 2900 11400	72050
	Gill-Nets.	Fathoms.		28560 9760 17780 9580 8800 2750 5300 7310 4400 7310 15400 81250 6400	258090
	İ	Men.		219 99 120 64 148 20 26 34 210 100 100 100 105 105 105 105 105 105 1	074
FISHING VESSELS AND BOATS.	Boats.	.aulus.V	₩:	1750 950 1040 1040 1250 1550 1940 1370 1250	24497 2074 258090
AND		Number.		170 170 170 170 170 175 175 175 175 176 176 176 176 176 176 176 176 176 176	1521
SSEL X		Меш.		28 113 136 136 43 43 43 43 43 43 43 43 43 43 43 43 43	562 1521
NG VE	Vessels.	Value.	X.	2430 1665 1600 1800 7500 2990	36095
\frac{\times}{2}	Ď	Топпаве.	-	157 1111 1111 895 95 520 520 111	2417
. —		Number.		∞ ·4 ·6.4 L ·0.∞ · · · H · ·	74.2
	Distractive	Number.	County of Richmond.	1 Arichat and Petit de Grat. 2 Cape Anguet, Madame Island. 3 West Archat. 4 Rooky Bay and Cape Le Rond. 5 D'Escousse and Lower D'Escousse. 6 St. Peter's. 6 St. Peter's. 9 River Bourgeoise. 8 Grandique and Port St. Louis 9 River Inhabitants and Basin. 11 West Bay. 12 Fourch to St. Espit. 13 L'Archeve'que to Point Michand. 14 L'Ardoise, Lower L'Ardoise and Rockdale. 15 Grande Grieve, St. Peter's East and Indian Reserve.	Totals

RETURN showing the Number and Value of Vessels and Boats, and all Fishing Materials, &c.-Nova Scotia-Con.

	TOTAL VALUE.			1246 343,721 75
PRO-	Fish used as Bait, brls.		25 0 0 25 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1246
FISH PRODUCTS.	Fish Oils, galls.		890 600 488 120 1825 320 4000 75 75 170 900 130 130 130 130 130 130 130 130 130 1	12527
	Coarse and Mixed Fish,			380
	Tom Cod or Frost Fish,			23250
	Flounders, lbs.			72130
	Squid, brls.			487
	Eels, bris.			230
H	Clams, bris.		250 1150 20 80 80 80 80 80 80 80 80 80 80 80 80 80	418
KINDS OF FISH.	Alewives, brls.		12 2 2 2 2 2 3 6 6 5 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	1400
KINDS	Smelts, lbs.		1503	33800
	Halibut, lbs.		2070 800 800 12000 12000 3400 2300 2300	24470
	Pollock, cwt.		957 6000 8000 3000 3000 160	1533
	Haddock, ewt.		730 200 200 60 200 120 140 70 70 70 1475 1110	7460
	Cod Tongues and Sounds, bris.		1 00 00 00 00 00 00 00 00 00 00 00 00 00	9 13
	Cod, dried, cwt.		1396 320 488 100 4550 165 105 105 105 105 105 105 105 10	28369
	Number. Districts.	County of Richmond.	1 Arichat and Petit de Grat. 2 Cape Auguet, Madame Island. 3 West Arichat. 4 Rocky Bay and Cape Le Rond. 5 D'Escousse and Lower D'Escousse. 6 St. Peter's. 7 Kliver Bourgeoise. 8 Grandigue and Port St. Louis. 9 River Inhabitants and Basin. 11 West Bay. 12 Fourchu to St. Esprit and List. Archeveéque to Point Michaud. 11 L'Archevéque to Point Michaud. 11 L'Archevéque to Point Michaud. 11 L'Archoise. Lower L'Ardoise and Rockdale. 15 Grande Greve, St. Peter's East and Indian Reserve.	Totals

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.-Nova Scotia-Con.

NOTE-In No. 6, add 2 trap nets, \$1,000, and 1 seine, \$60.

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c. -Nova Scotia-Con.

Ī	Number.		128470078001128	!
	TOTAL VALUE.	ets.	14, 398 30 20,774 27 20,774 27 23,185 80 12,651 24 5,001 94 6,732 90 6,732 90 15,413 93 10,550 86 11,551 50 10,550 10 10,550 10 10 10,550 10 10 10 10 10 10 10 10 10 10 10 10 10 1	200,644 39
TS.	Seal Skins, number.		127 26 34 45 30 30 30	262
Fish Products.	Firsh used as Bait, brls.		678 600 600 340 40 40 60 110 110 1080 30 30 30 42 42	3905
FISH	Fish Oils, galls.		2842 2852 2852 1425 1130 1130 200 2200 2200 2200 2200 2200	8994
	Coarse and mixed fish, bris.		3000 2900 3000 2900 2900 2900 2900 2900	10691
	Tem cod or frost fish,		2000 400 100	2500
	Dogfish, Ibs.		86000 36000 36000	2758 183000
	Squid, bings		200 200 200 200 200 200 200	2758
H.	Eels, brls.			288
Fis	Clams, brls.		128 833	43
KINDS OF FISH.	Oysters, brls.		235	725
KINI	Alewives, brls.		184	42
	Smelte, lbs.		100000 400000 30000 3210 4852 2745	63807
	Halibut, lbs.		3300 100 2500 2400 4000	12300
	Trout, lbs.		2100 1500 1500 1860 875	6485
	Haddock, ewt.		10 129 316 180 10 10 10 10 25 25 325	1040
	Districts,	Viotenie Courts	Meat Cove to Ba Cape North to W New Haven and Green Cove and New Campbelto Englishtown, St. Eel Cove, Indian Breton Cove, Lif French River, W South Bay, Ingo Kemp Head, Bo North and South Washabuek and	T otal
1	Number.		19 2 4 7 2 2 L 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2	

RECAPITULATION

Of the Yield and Value of the Fisheries for the Island of Cape Breton, for the Year 1896.

Kinds of Fish.	Quantity.	Rate.	Value.
		\$ cts.	\$ cts.
Salmon, pickledBrls.	408	16 00	6,528 0
Salmon, freshLbs.	115,152	20	23,030 4
balmon, preserved	5,124	15	768 6
derring, pickled Brls.	30,280	3 75	113,550 0
Herring, fresh or frozenLbs.	126,900	14	1,586 2
ferring, smoked "	5,000	2	100 0
Mackerel, pickled	9,706	14 00	135,884 0
Aackerel preserved	6,900	12	828 0
obsters, preserved	1,406,478	14	196,906 9
Lobsters, fresh	$ \begin{array}{c} 152\frac{1}{4} \\ 82,313 \end{array} $	75 00	11,418 7
Cod, tongues and sound	87	$\begin{array}{c c} 4 & 00 \\ 10 & 00 \end{array}$	329,252 0
Iake, dried	4,709	2 00	$\begin{array}{c} 870 \ 0 \\ 9.418 \ 0 \end{array}$
Iake, sounds	1,625	50	812 5
Iaddock, dried	13,380	2 25	30,105 0
Pollock, dried"	1,667	2 00	3,334 0
TroutLbs.	35,775	10	3,577 5
Halibut, fresh "	111,312	10	11.131 2
Smelt " "	151,707	5	7,585 3
Bass "	510	10	51 0
Alewives	2,541	3 50	8,893 5
ysters	1,564	4 00	6,256 0
danis	784	6 00	4,704 0
Jets	1,634	10 00	16,340 0
11801	26	10 00	260 0
quia	7,521	4 00	30,084 0
Tounders Lbs. om cod or frost fish "	71,130	5	3,706 5
oarse and mixed fish	27,250	5	1,362 5
ish oil	$\frac{11,489}{40,980}$	3 00 40	34,467 0
ish used as bait	13,028	1 50	$16,392 \ 0$ $19,542 \ 0$
ish used as manure	60	50	30 0
ish guano	461	25 00	11.525 0
eal skins	1,082	1 25	1,352 5
Oog fishLbs.	189,500	1	1,895 0
Total for 1896			1,043,547 4
Total for 1895			1,067,776 1
Decrease			24,228 6

RECAPITULATION

Showing the Number and Value of Fishing Vessels, Boats, Nets, etc., in the District No. 1 of Nova Scotia for the year 1896.

 ·	Value.	Total.
•	\$ cts.	\$ cts.
115 vessels, 3181 tons. 4048 boats 442,956 fathoms gill nets 6 seines (895 fathoms). 4 trap-nets. 2111 trawls. 57 weirs. 108 smelt-nets.	54,495 00 73,463 00 140,913 00 1,160 00 2,000 00 10,556 00 496 00 865 00	009.040.00
64 lobster canneries (1570 hands	42,960 00 76,085 00	283,948 00
32 freezers and ice-houses 1183 smoke and tish-houses 247 piers and wharfs 56 tugs, steamers and smacks	4,622 00 48 290 00 52,210 00 4,472 00	119,045 00 109,594*00
Total value		512,587 00

NOVA SCOTIA-

Return showing the Number, Tonnage and Value of Vessels and Boats, and the the Number of Men employed in the Province of

		F	ISHIN	BOA		S AN	D		Fis	SHING	MA	TERI	ALS.		
Districts.		V	essel	s.	1	 Boats		Gill-N	Tets.		elt-	We	irs.	Tra	wls
DISTRICTS.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathons.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Antigonish County.			\$			\$			\$		\$		s		\$
1 Harbour au Bouche	1	17	400	3		298 372	39 40	12000 10300						29 10	
3 Bayfield, Monk's Head & South Side 4 North Side Harbour, Morristown		90	1200	8	32 31	450 562	34							o=	
and Lakevale 5 Cape George, Georgeville and Malignant Cove 6 Arisaig, Moidard and Knoydart					32 26	485	42 46 39		1227					31 12	28
Totals	2	55	1600	11	181	2639	240	66450	7542					107	95
Values \$,											
Colchester County.															
1 Sterling 2 Stewiacke 3 Five Islands 4 Economy					8 53 5 6	$\frac{285}{145}$	18 92 8 12	630	150 465 265		225	2	300 2050		
5 Little Bass River to Highland Village					16 24	628 684	32 48		655 867			4	1000		
Totals					112	2092	210	16140	2402	9	225	13	3350		
Values\$,							* ,* *		

NOTE. - In No 1 add 9 smelt nets \$225.

District No. 2.

Quantity and Value of all Fishing Materials, the Kinds and Quantities of Fish, and Nova Scotia (District No. 2) for the Year 1896.

							K	INDS	SOF	Fish.										
Salmon, fresh in ice, lbs.	Herring, salted, byls.	Herring, fresh or frozen, lbs.	Mackerel, salted, brls.	Lobsters, preserved in cans, lbs.	Cod, dried, cwt.	Hake, dried, cwt.	Hake, sounds, lbs.	Haddock, cwt.	Trout, lbs.	Smelts, lbs.	Bass, lbs.	Alewives, brls.	Oysters, brls.	Eels, brls.		Coarse and Mixed Fish, brls.	Fish Oils, galls.	Fish used as Bait, brls.		TOTAL VALUE
1200	516 414		52 21	52080	92 55	52 27	198 86	16 7	200	1500 3000		61 33	90		,		79 101	118 110		11,710 4,587
19600	281		174	21264	22				600	10000		33		100				124		12,574
5550			31	32832	284	380	1341	63	200	800		40		5			740	179		11,608
400 6400	227		37 56	33912 13672	215 41		2088 1784	57 17				37					639 546	181 112		10,213 12,973
33150	1984		371	183760	709	1744	5497	160	1400	15300		204	90	195		95	2105	824		
6630	8928		5194 —	25726	3190	4435	2748	560	140	765		816	360	1950		142	842	1236		63,662
9100 500 2840		23000		17048	102			21	300 3050 200 300	13400	1200		54	2	12 48 3 53		38		40	3,465 3,261 698 1,646
$\frac{16788}{24085}$									400 200						168 119					5,07
 53313		23000		17048	115			21	4450	13400	1200	134	54	2	403		. 38		40	
10662		460		2387	517			74	445	670	120	536	216	20	4030		15		-20	20,17

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Fishing Industry in the Province of

		F	ISHIN	7G V 3	ESSEL	S ANI	р Вол	ATS.	F	ISHIN R	iG IAL		E-			
	December	-	Ve	ssels.		.I	Boats		Gi Ne			Seine	es.	in ice,	brls.	£
Numbers.	Districts.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Fathoms.	Value.	Salmon, fresh, ir	salted,	Herring, fresh or frozen, lbs.
1	Cumberland County. Pugwash, Port Philip and Gulf			*		440	\$			\$			\$			
2 3 4 5 6 7 8	Shore Wallace River Philip. Laplanche, Maccan and Nappan. Minudie to Apple River. Advocate. Spencer's Island and Port Greville Parrsboro,	1	30	150	7	6 3 9 5	70 180 125 480	8 6 18 8	500 170 260	130 80 100	4			2200 1350 3200 500 6800	12 40 70	500 1300
	Totals \$	4	92	1000	17	154	5015	190	3070	1030	8	260	50	14050	212	

Note.—No. 1—Add 30 Smelt Nets, \$600. No. 8 " 3 Weirs, \$100. Quantity and Value of all Fishing Materials and other Fixtures employed in the Nova Scotia, for the Year 1896,

						Kini	S OF	Fis	н,										
Herring, smoked, lbs.	Mackerel, salted, brls.	Mackerel, fresh or preserved in cans, lbs.	Lobsters, preserved in cans, 1bs.	Lobsters, alive or fresh, tons.	Cod, dried, cwt.	Hake, dried, cwt.	Haddock, cwt.	Pollock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Alewives, brls.	Oysters, brls.	Eels, hrls.	Shad, brls.	Fish oils, galls.	Fish used as bait, brls.	Fish used as manure, brls.	TOTAL VALUE.
																			\$
800 300 1100	2		492674	2	20 30 125 135 310	5 6	5 20 40 30 95	15 17 32	1400	300 1000 1100 2400	46000 16000 1500 1000	250 320 90 10 680	50 400	10	$ \begin{array}{c c} 4 \\ 9 \\ 160 \\ 200 \\ \\ \\ \\ \hline 375 \end{array} $	20 25 45	450	1200	72,872 3,580 1,910 2,305 2,954 540 1,323 2,720
22	. 28	20	68974	225	1395	27	333	80	140	240	3225	2720	1800	100	3750	18	705	600	88,184

RETURN showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c. — Nova Scotia—Continued.

		Number.			64700	F-30.0	911	132		1-	1 400
	n cans,	Mackerel, fre preserved, in			: : : :		31800	225 363875 490 452952	167250	1315877	657.94
		Mackerel, salt brls.		255	322	15 30 40	25 1600	225 1490	2717	6303	88040
Fish.	l or	Herring, fresh frozen, lbs.					2000	48000	3000 120000	13499 218400	.184
Kinds of Fish.	d, brls.	Herring, salte		120	530 420 320 600	750 800 700	250	086	3000	13499	607.15
Kr	ed, lbs.	Salmon, smok		250	650		: :	: :		1300	0006
	rved,	Salmon, prese			200		200		:	3000	150
		Salmon, fresh,		750	1200 6460 1500 950	1200	1500	10500,2300 8975	15000	50985 3000	10107
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		Value.	¥.	06 :	200		800	975	000	3740	1
IALS.	Seines.	Fathoms.		140	180 150 150 		210	0005	089	3270	
ATER	02	Number.						91-	9	- Fi	
Fishing Materials.	Nets.	Value.	4.				1450	4650		11000	
Fish	Trap	Number.		: :	: : : :		9	39	:	57	
	Nets.	Value.	- S.	1200	2400 860 750 1800	1500 2000 2500	1000	9540	32240	105592	-
	Gill	Fathoms.		3300	6800 2500 2200 4000	3500 4500 3900	2400 117840	31800	510 128960	68500 105592	
		Мец.		92	150 60 48 75	388	780	318	510	2620	
BOATS.	Boats.	Value.	→	1200	. 2800 900 600 1200	760 1500 900	700	10980	10730	58754	
AND		Number.		70 52	120 42 30 60	20.00	32	289	500	55266	
SELS		Men.		: :			528	29	61	159	-
Fishing Vessels and Boats.	Vessels.	Value.	F.				0089	1380	6500	15480	
rishi	Ve	Tonnage.					183	230	55 73	601	
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	Districts,		Guysborough County.	1 Ecum Secum. 2 Marie Joseph.	Georgian 4 St. Mary's River and Bay 5 Wine Harbour 6 Indian Harbour 7 Harbour	River 8 Port Beckerton 9 Fisherman's Harbour	Harbour	ing Title 1.3 Canso, includ- ing Title 1.3 Canso to Salmon River 1.4 Salmon River to Antigonish	County Line, including Cook's Cove, Guysborough, North Shore and Canso	Totals	Values

RETURN showing the Quantities and Value of Push, &c. Nova Scotia Continued.

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	Number.	Gunsbarough Countn		3 Liseombe, Spanish Bay and George in Alba Bay and Share Harbon Common Harbon in Federal Lates and Lates in the Leafure of the Lates in the Lates and Lates in the Lates and Lates in the L	7 Holland Harbour and Indian Raver 8 Port Beckerton			County Line, including Cook's Cove, Guysborough, North Shore and Canso	Totals	× × × × × × × × × × × × × × × × × × ×

Return showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.—Nova Scotia—Continued.

Number: County County			FISHI	FISHING VESSELS AND BOATS.	SELS A	ND Bo	ATS.				FI	SHING	Fishing Materials.	IALS.				
Number: Number: <t< th=""><th>Districts,</th><th>-</th><th>Vess</th><th>sle.</th><th> </th><th>Ä</th><th>oats.</th><th></th><th>Gill Ne</th><th></th><th>rap N</th><th>ets</th><th>702</th><th>sines.</th><th></th><th>Traw</th><th>ls,</th><th></th></t<>	Districts,	-	Vess	sle.		Ä	oats.		Gill Ne		rap N	ets	702	sines.		Traw	ls,	
Semanty.	Number.	Number.	Tonnage.	Value.	√*uəµ	Number.	Value,	Men.	Esthoms.				TA MINDEL:	Fathoms.	Value.	Number.		tammer:
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angier	one's Harb	orv Bav.	pher Isla	eaver H	noddy a	Toser Ri	[itchell's	
7 Tangier	Pone's Harb	Bary Bay.	Sober Isla	Beaver H	2 Onoddy a	3 Moser Ri	4 Mitchell's	
27 Tangier	28 Pone's Harb	29 Snrv Bav.	30 Sober Island and Sheet Harbour.	31 Beaver Harbour and Salmon Rive	32 Chooddy a	33 Moser River and Smith's Cove.	34 Mitchell's Bay to Ecum Secum.	

RETURN showing the Quantities and Value of all,

		SALM	ON.	HE	RRING.		MACKE	REL.	Lobs	TERS.	Cod.
Number.	Districts.	Fresh in ice, lbs.	Smoked, lbs.	Salted, brls.	Fresh or frozen, lbs.	Smoked, lbs.	Salted, brls.	Fresh or preserved, in cans, lbs.	Preserved, in cans, lbs.	Alive or fresh, tons.	Dried, cwt.
	Halifax County.										
2 3 4 5 6 7 8 9 10 11 12 13 14 14 15 16 17 18 19 12 12 22 23 24 25 26 27 28 29 33 29 33 33 33 33 33 33 33 33 33 33 33 33 33	North Shore East St. Margaret's. Indian Harbour. Peggy's Cove Dover. Prospect. Terrence Bay Pennant. Sambro. Ketch Harbour Portuguese Cove Herring Cove. Ferguson's Cove. Bedford Halifax Eastern Passage and Devil's Island. Lawrencetown and Cow Bay Seaforth and Three Fathom Harbour. West Cliezetcook. East Chezetcook. Petpiswick Harbour. Musquodoboit Harbour. Jeddore. Clam Harbour and Owl's Head. Ship Harbour. Pleasant Harbour. Tangier Pope's Harbour and Gerrard's Island. Spry Bay, Taylor's Head and Mushaboon Sober Island and Sheet Harbour. Beaver Harbour and Salmon River. Quoddy and Harrigan Cove. Moser River and Smith's Cove. Mitchell's Bay to Ecum Secum.	300 3000 2000 3000 5000 120 250 400 50 400 880 338 1700 300 400 260 440 260 	260 275 400	50 300 2000 300 800 900 150 25 250 100 100 15 59 68 93 380 64 140 350 679 957 186 553 199 65 50 51 51 51 51 51 51 51 51 51 51	400 100 100 500	1500	700 250 1000 45 25 10 1 1 5 7 6 6 7 19 2 2 8 22 68 69 3 65 8 151	100 350 1000 240 150 150 200 250	42000 77336 9408 38544 34560 87792 71568 104688 78816	4 12 20	10 10 10 10 10 12 10 10 12 10 10 10 12 10 10 10 10 10 10 10 10 10 10 10 10 10
	Totals	22288	2335	10842	13000	1500	1885	2640	751967	2611/2	173

Kinds of Fish, &c.—Nova Scotia—Continued.

The color of the	НА	KE.				Отн	er Kin	DS O	F]	Fish.					Fish	PRO	DUCI	is.	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dried, ewt.	Sounds, 1bs.	Haddock, cwt.	Pollock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Alewives, brls.	Oysters, brls.	Clams, brls.	Eels, brls.	Squid, brls.			Fish oils, galls.	s bait,	23.		VALUE.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$																			8
10 0010 1001 1001 1001 1001 1001	50 150 50 200 150 25 40 150 10 140 	150 12 250 40 150 200 50 0 250 15 180 23	10 500 25 50 35 75 75 75 90 40 1500 258 96 83 62 80 83 62 80 48 20 22 23 33 4 4 20 0 0 0 0 0 0 0 0 0 0 0 0 0	25 100 200 500 400 2500 11000 200 11200 21 18 78 444 205 128 198 20 21 16 9 9	200 100 150 200 60 50 400 300 1000 200 700 100 650 220 390 1000 	1000 1500 6000 10000 250 120000 300 57700 190 192 1439 5000 1050 22900 270 1150 612 1000 170	100 50 50 100 50 100 75 150 6600 23000 6300 1700 6400 2000	3 20 15 25 20 75 50 12 18 2 2 17 36 26 26 12 27 260 6 11 260 27 27 27 27 27 27 27 27 27 27 27 27 27	2	22 6 22 2 10 40 20 20 1 22 12 26 252 47 45 30 47 11 11 12 2 2	2 3 3 1 1 2 2 2 3 3 3 1 1 5 5 4 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 8 4 4 8 8 8 4 0 25 5 5 5 5 5 4 4 4 4 2 2 5 5 4 4 4 4 2 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	400	2 10 5 8 8 20 40 20 5 8 8 3 2 2	12 200 120 200 170 500 60 0 15 250 15 	4 44 44 266 422 800 1255 1000 40 288 440 125 149 288 1500 407 333 188 266 8 55 55	125 200 360 1000 750 1100 800	3	2,380 16,737 3,475 11,101 11,910 25,580 11,476 18,757 4,133 1,292 9,919 299 149 4,481 5,676 1,429 2,895 24,626 4,906 19,548 5,694 19,532 7,159 11,659 7,537 6,032 8,972 24,188 13,630 17,082 11,924 11,924 11,924 11,924
	1680	1920	3698	2817	7670	32605	48575	1130	2	629	1.20	146	400	130	10154	1281	6140	21	

RETURN showing the Number Tonnage and Value of Vessels

		1	BOATS	s.		Fis	HING	MA	TERIA	ALS.				
	Districts.				Gill-1	Vets.	Sme Ne		We	irs.	Trav	wls.	nice, lbs.	d, brls.
Number.		Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Value.	Number.	Value.	Salmon, freshinice, lbs	Herring, salted,
	Hants County.		s			\$		8		s		s		
2 3	Maitland to Shubenacadie Shubenacadie to Grand Lake Noel to Maitland West Hants	25 21 5 22	212 68 125 875	25 21 5 30	1288 410 820 4800	249 104 85 1130			2	450 360			5400 805 190 4120	iı
	Totals	73	1280	81	7318	1568				810			10515	11
	Values												2103	49
	County of Pictou.													
2	West Pictou. Pictou Island Central Division. Southern Division Merigomish Island North Beach Ponds Lismore.	64 8 25 12	2700 1445 160 466 180 45 270 60	170 232 8 35 14 4 18 4	1800 750 200 2823 970 625 1300 650	550 150 50 1580 485 310 640 305	3 3 2	75 100 32 60			24	102	250 8450 7000 2500 5000 2900	10 70
	Totals	274	5326	485	9118	4070	12	267			24	102	26100	80
	Values\$												5220	360

and Boats, and all Fishing Materials, &c.—Nova Scotia—Continued.

				Kini	s of	Fish.								Fron Prop	SH UCTS.		
Herring, fresh or frozen, lbs.	Mackerel, salted, brls.	Lobsters, preserved in cans, lbs.	Cod, dried, cwt.	Hake, dried, cwt.	Haddock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Bass, lbs.	Alewives, brls.	Oysters, brls.	Hels, brls.	Shad, brls.	Fish used as bait, brls.	Fish used as manure, brls.	VALUE.	Number.
																\$	
2000			58		5	10000	700		320	62 256 			38 50 221			1,390 1,565 538	1 2 3
																4,886	4
2000			58		5	10000	700		1220				312		,		
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		252588 176584	20			300		3300 5000		150	20	8		500 350	600 400	37,022 26,042 2,220	1 2 3
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42800		502373	226	112		1350		17409		150	300	75		1090	1175	000	
42000		70332		280		1350		870			1200	750		1635	588	83,877	

Comparative Statement of the Value of Fisheries in each County of District No. 2, Nova Scotia, for the Years 1895 and 1896.

County.	Value in 1895.	Value in 1896.	Increase.	Decrease.
	\$	\$	\$. \$
Antigonish Colchester Cumberland Guysborough Halifax Hants	60,182 26,798 83,695 711,499 429,671 13,702 104,235	63,662 20,172 88,184 646,116 335,073 8,379 83,877	3,480	6,626 65,383 94,598 5,323 20,358
Total	1,429,782 1,245,463	1,245,463	7,969	192,288 7,969
Decrease	184,319			184,319

RECAPITULATION

OF the Yield and Value of the Fisheries in District No. 2, Nova Scotia, with a Comparative Statement of the Increase or Decrease for the Years 1895 and 1896.

do sanned " 3,000 15 450 1,00	${ m Articles}.$	Quantity.	Rate.	Totals.	Increase.	Decrease
Haddock Cwt. 23,607 3 50 82,626 10,334 Pollock "4,343 2 50 10,857 1,038 Brout Lbs. 52,730 10 5,273 10,75 Halibut "210,955 10 21,095 96,86 Smelts "198,935 05 9,946 17,87 Bass "3,420 10 342 270 Alewives Brls. 4,799 4 00 19,196 349 Dysters "896 4 00 3,584 247 Cels "948 7 00 6,636 20 Eels "1,218 10 00 12,180 1 Shad "1,090 10 00 10,900 11 Squid "6,721 4 00 26,884 46 Com cod Lbs. 6,740 05 337 11,41 Coarse fish Brls. 320 1 50 480 18,703 Fish oils Galls <t< th=""><th>do canned " do smoked " Herring salted Brls. do fresh Lbs. do smoked " Mackerel, salted Brls. do fresh Lbs. do fresh Lbs. do fresh Lbs. Cobsters, canned " do fresh Tons. Cod, dried Cwt. do tongues and sounds Lbs. Hake, dried Cwt.</th><th>3,000 3,635 26,628 278,000 25,600 8,594 1,318,917 2,784,238 2904 43,057 15 4,856</th><th>20 15 20 4 50 01 02 14 00 05 14 75 00 4 50 10 00 2 50</th><th>42,080 450 727 119,826 2,780 512 120,316 65,946 389,792 21,788 193,756 12,139</th><th>2,627 743,567 21½ 159</th><th>39,841 499,666 15,467</th></t<>	do canned " do smoked " Herring salted Brls. do fresh Lbs. do smoked " Mackerel, salted Brls. do fresh Lbs. do fresh Lbs. do fresh Lbs. Cobsters, canned " do fresh Tons. Cod, dried Cwt. do tongues and sounds Lbs. Hake, dried Cwt.	3,000 3,635 26,628 278,000 25,600 8,594 1,318,917 2,784,238 2904 43,057 15 4,856	20 15 20 4 50 01 02 14 00 05 14 75 00 4 50 10 00 2 50	42,080 450 727 119,826 2,780 512 120,316 65,946 389,792 21,788 193,756 12,139	2,627 743,567 21½ 159	39,841 499,666 15,467
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Haddock Cwt, Pollock " Irout Lbs. Halibut " Smelts " Bass " Alewives Brls.	4,343 52,730 210,955 198,935 3,420 4,799	2 50 10 10 05 10 4 00	10,857 5,273 21,095 9,946 342 19,196	1,038 270 349	10,79 96,86 17,87
	Clams " Eels " Shad " Squid " Fom cod Lbs. Coarse fish Brls. Fish oils Galls. do used as bait Brls.	948 1,218 1,090 6,721 6,740 320 49,573 22,700	7 00 10 00 10 00 4 00 05 1 50 40 1 50	6,636 12,180 10,900 26,884 337 480 19,828 34,050	18,703 1,193	20 1 11 46 11,41 48

RECAPITULATION

Snowing the number and Value of Fishing Vessels, Boats, etc., in the District No. 2, Province of Nova Scotia, for the Year 1896.

<u> </u>	Value.	Total.
•	\$	\$
92 vessels, 2279 tons. 5635 boats 754,208 fathoms gill-nets 67 trap-nets. 448 seines, 46,405 fathoms. 61 smelt nets. 29 weirs.	57,395 114,409 160,862 12,150 66,145 1,192 4,260 9,983	404 804
254,790 lobster traps 108 canneries (1,792 hands).	138,000 124,425	426,39
37 freezers and ice houses. 1629 smoke and fish houses. 988 piers and wharfs. 41 steamers and smacks 3753 hand lines.	19,355 69,328 44,864 26,670 1,981	262,429 162,199
Fotal value		851,01

NOVA SCOTIA—District No. 3.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials and other Fixtures employed in the Fishing Industry in the County of Annapolis, Province of Nova Scotia, for the Year 1896,

	Number.					20	09
lbs.	Hake, sounds.			_		2 37	20280 1860
,4Vt.	Hake, dried, cv				65		
'spunos	Cod, tongues &						3 330
**	Cod, dried, cwt		8 650 8 70 8 70 8 70 8 70	3250 3250	360	989	30893
, desan ac	Lobsters, alive		470 9 1- 6 8 6	700		09	1800 4500
			3500		6500	15000	1800
d, brls.	Mackerel, salte				9	10	140
.sdl ,ba	Herring, smoke			: :	7000	0002	140
brls.	Herring, salted,		700 800 750 620 510	470 60	3.5		19958 140
.sdl,esi	ni dsəri , fresh in		7000	: ;	6000 550 500	1	4110
7.	Value.	₩	400 700		→ · ·	3050	
Wei	Number.		88	: : 6	Loro	18	:
lets.	Value.	€	600 1000 1600 1000 1500	15/10	300	11700	
Gill-r	Esthoms.				1 1 1	23400	
	Men.		20044820	9 50 g	7 · · · · · · · · · · · · · · · · · · ·	359	
Soats	Value,	H				4 160	
	Number.			388	25	223	
	Men.		· · · · · · · · · · · · · · · · · · ·	20	9 : : :	111	
sssels.	.enlaV	₩	750	3120 8280	780	14310	
) A	Tonnage.		25	$\frac{104}{276}$	26	477	1
	Number.		ದ : : : : :	0.00	:cd : : : :	155	- GF
,	DISTRICTS.	County of Annapolis.	George Lorne ppton my and Young's Cove	sboro' and Delap's Cove	mes Cove to Ferry apolis Bast to Bear River alle River nd Hill River of Lakes and Streams	Totals	Welliage
	Vessels. Gill-nets. Weirs. d, lbs. d, brls. ice, lbs. sounds, or pre- is. or pre- is. vt.	Tonnage. Value. Value. Value. Value. Yalue. Yalu	Mackerel, fresh or fresh, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris. Cod, tongues & sounds, bris.	Mumber. Albert Albert	According to the content of the co	Value	Columber Columber

RETURN Showing the Quantity and Value of Fish, &c., Nova Scotia-Continued.

	Total Value Number Number Number	& cts	8,402 00 1 8,276 00 2 15,019 00 2 12,408 50 4 12,408 50 4 12,408 00 5 12,408 00 5 13,448 00 7 81,200 00 8 1,275 00 1 274 00 11 274 00 11 274 00 11 274 00 11	200,338 00
TS.	Fish guano, tons.		10 10 12 12 12 12 12 12 12 12 12 12 12 12 12	215 1424
FISH PRODUCTS.	Fish used as manure, brls,			1
н Рв	Fish used as bait, brls.		280 300 4430 4420 4400 340 1220 255 260 260 260 260	6128
Fis	Fish oils, galls.		150 280 190 300 230 400 420 400 420 400 420 400 420 400 420 400 420 400 420 380 410 380 410 252 250 250 250 250 250 250 250 250 25	800 100 100 6000 1308 6128
	Coarse and mixed fish,		3000	0009
	Tom cod or frost fish,		2000 2000 3000	100
	Flounders, lbs.			1001
	Sardines, brls.		50	008
	Squid, bris.		10000 4250	CA.
	Shad, brls.		33	1 6/1
±	Eels, brls			
Fish	Clams, brls.		500	1
S OF	Alewives, brls.		700 1000	
KINDS OF FISH,	Bass, Ibs.		2000 20	240
	Smelts, lbs.		5000	6700 100
	Halibut, Ibs.			٧
	Trout, lbs.			1210
	Pollock, cwt.			13617
	Haddock, cwt.		112 200 200 700 600 1200 1400 7250 90 1000	49532
	Districts.	County of Annapolis.	Margaretville. 2 Port George. 3 Port Lonne. 4 Hambton. 6 Parker's Cove. 6 Parker's Cove. 7 Hillsboro' and Delap's Cove. 8 Victoria Baech. 9 Thome's Cove to Ferry. 10 Clementsport to Bear River. 11 Annapolis East to County Line. 12 Lequille River. 13 Round Hill River. 14 Island Lakes and Streams	Totals Values
	Number.	1	122 4 4 5 6 0 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	

Nork—Annapolis Royal has one fish drying establishment. Actual weight of fish dried 10,000 quintals. Employ 10 men. Weekly wages, \$65. Plant worth, \$7,000.

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, &c.-Nova Scotia-Continued.

	ed, lbs.	Herring, smoke		2000 800 650 450 600 600 18500	23000	460
Fish.	, frozen,	Herring, fresho		4000 1000 1420 7000 21000 25000	59420	594
KINDS OF FISH.	slrd .	Herring, salted		110 110 110 110 110 110 110 110 110 110	416	1872
Kı	,95i ni	Salmon, fresh lbs.		25000	4350	870
	Trawls.	Value.	₩	250 160 160 160 160 180 180 180 180 180 180 180 180 180 18	1 ~	:
	Tra	Number.		14 121 121 121 131 14 151 151 151 151 151 151 151 151 151	406	1 :
	Weirs.	Value.	#	200 200 300 8 300 4 400 4 150 150 150 150 150 150 150 150 150 150	2390	
MATE	M	Number.		23 -4-23 :	27	1:
MATE		Value.	₩.	1800 250 250 255 255 1000 1000	9225	
FISHING MATERIALS.	Seines.	Fathoms.		800 800 800 800 800 800 800 800 800 800	3650	1:
FI		Number.		4.0		1:
I	lets.	Value.	€	200 200 200 200 200 200 200 200 200 200	24890	1:
	Gill-nets.	Fathoms.		280 2000 2000 2000 300 300 225 240 255 250 250 250 250 250 250 250 250 25	7060	
		Men.		01748856888644880084886388888888888888888888888	747	Ī
OATS.	Boats.	.Value.	₩	150 1020 1020 1020 1020 1020 1020 1020 1	2100	:
TD B		Number.		00 00 00 00 00 00 00 00 00 00 00 00 00	333	1:
LS AT		Men.		65 10 10 92 92	424	1 :
FISHING VESSELS AND BOATS.	els.	Value,	≎	7000 900 11100 600 600 7200 7200	41500	
FISHING	Vessels	Tonnage.		270 270 271 283 303	185	
		Number.		9 :	54	1:
	Disensions		Digby County.	1 Digby 2 Bay View 3 Broad Cove 4 Rossway 6 Centreville 7 Sandy Cove 8 Mink Cove 11 Long Beach and Whale Cove 12 Bax Ferry 13 St. Mary's Bay 14 Weymouth 15 Meteghan 16 Church Point 17 Meteghan 16 St. Mary's Cove 16 Church Point 17 Meteghan 18 St. Mary's Cove 16 Church Point 17 Meteghan 19 St. Mary's 20 Smith's Cove 21 Westport.	erton	Values

RETURN showing the Kinds and Value of Fish, &c.-Nova Scotia-Continued.

	Total Value.	\$ cts. 92,917 60 1 2,417 60 2 1,688 00 3 1,688 00 3 2,841 20 4 2,841 20 4 3,138 00 7 3,138 00 7 3,138 00 7 3,138 00 7 3,055 00 10 3,055 00 10 3,055 00 10 1,274 00 16 5,821 00 17 1,106 50 18 2,151 00 19 3,677 50 1 1,106 50 18 2,151 00 19 3,677 50 2 1,106 50 18 2,151 00 19 3,677 50 2 1,109,055 00 22 41,298 00 23	437.946.20
JCTS.	Fish used as Manure, bris.	220 330 380 880 880 80 80 144 142 120 120 120 120 120 120 120 120 120 12	959
PRODUCTS	Fish used as Bait, brls.	950 950 950 950 950 950 950 950 950 950	15860
Fish	Fish Oils, galls.	30000 2100 2100 280 80 80 80 150 660 450 450 250 250 250 11000 44610	17844
	Coarse and Mixed Fish, brls.	221 190 100 100 100 100 100 100 100 100 10	650
	Tom Cod or Frost Fish,	9000	175
	Flounders, lbs.	1050	1 22
	Shad, brls.	3319	39.60
	Clams, bris.	88 89 11 11 11 11 11 11 11 11 11 11 11 11 11	3164
	Halibut, lbs.	21000 950 480 480 400 220 800 800 1100 750 1000 1500 18000 1	9350
F FISH	Pollock, cwt.	200 200 200 200 200 200 200 200	44095
Kinds of Fish	Haddock, cwt.	8000 60 1111 1140 139 130 140 170 170 170 170 170 170 170 170 170 17	100989
K	Hake, sounds, lbs.	1100 90 1100 100 100 110 120 120 111 1110 110	7736
	Hake, dried, cwt.	10000 250 250 4400 1125 2600 250 6600 1600 1600 650 100 1120 1120 1120 1120 1120 1120 112	877538
	Cod, tongues & sounds, bris,	232224-11 41 11212 1400 D	1 6
	Cod, dried, cwt.	30000 622 283 250 60 95 240 95 240 95 120 115 340 115 320 1020 1020 1020 1020 1020 1020 1020	114813
	Lobsters, alive or fresh, tons.	23.4	1
	Lobsters, preserved in cans, lbs.	80000 80000 150000 120000	6160
	Districts.	1 Digby. 2 Bayview. 3 Broad Cove. 4 Rossway. 5 Waterford. 6 Centreville. 7 Sandy Cove. 9 Little River. 10 White Cove. 11 Long Beach and Whale Cove. 12 East Ferry. 13 St. Mary's Bay. 14 Weymouth. 15 White's Cove. 16 Church Point. 17 Meteghan. 18 Church Point. 18 Westport. 22 Rivesport. 23 Tiverton. Totalis.	Na July
		ight and and a start and a sta	

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and

	Fishi	NG VES	SELS	AND	Вол	TS.			F	ISHIN	G М.	ATER:	IAL.		
Districts.	7	essels.			Boats	J.	Gill	Nets		ap.		Seine	s.	We	irs.
DISTRICTS	Number. Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number	Value.	Number.	Fathoms.	Value.	Number.	Value.
King's County. Starr's Flatts. Kingsport. Newcomb's Point Bondon Baxter's Harbour Hall's Harbour Chipman's Brook. Black Rock. Harbourville Morden Scott's Bay. Aylesford. Avonport Boat Island. Gasperaux. Long Island Totals.	2 33 2 25 2 35	450 800 750	57		26 20 240 300 40 50 180 60		900 120 180 360 180 90 240 	450 60 90 180 90 50 120 700	35		3	20000 1500 144 750 750 1000 6144	400	1 10 13 3 1 2 6 3	100 2000 2600 600 100 400 1000 450

the Quantity and Value of all Fishing Material, &c.—Nova Scotia—Continued.

				KINDS	OF I	Fish.						Fish	Pro	DUCTS.		
Salmon, fresh, in ice, lbs.	Herring, salted, brls.	Herring, smoked, lbs.	Mackerel, salted, brls.	Lobsters, alive or fresh, tons.	Cod, dried, cwt.	Haddock, cwt.	Pollock, cwt.	Trout, lbs.	Bass, 1bs.	Alewives, brls.	Shad, brls.	Fish oils, galls.	Fish used as bait, brls.	Fish used as manure, brls.	TOTAL VALUE.	Number.
		,												1	\$ ets.	
300 200 20000 26000 1500 8000 9000 6000 2200 2000 250 78950	500 42 700	645000	25	1500	2 2 240 475 60 90 180 60 60 1 1230		5 2 50 75 15 10 50 29 15 24	900	250	700 3 600 	45	300	10 20 5 100 150 20 30 60 30 40 45	50 25 50 20 75 200 50 40 90 60 50 175	1,675 00 127 50 1,464 00 189 50 7,455 00 124,657 50 1,762 50 8,115 00 10,928 00 1,834 00 530 00 2,800 00 1,099 00 2,950 00 529 50	
78990	2819	$\frac{645000}{12900}$		112500		1523	688			5212			765		172,899 00	

RETURN showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Muteral, &c.-Nova Scotia-Con.

		Number.			-	63	eo 4₁	70 d) [~	000	10	= 0	25	45		
	'pə	Mackerel, salt			825	162	. 20	10	# 63	4 17	2 -	25	12	75.70	1323	18500
÷	.sdf,bs.	Herring, smok			800	400	800	400		:		:			4900	96
KINDS OF FISH.	OL	Herring, fresh frozen, lbs.			25000	10000	1200	2500		300	325	:			44575	446
ZINDS C	d, bris.	Herring, salte			3893	2648	1827	800	275	222	300	150	2050	11000	29053	558 130739
×	ed, lbs.	Salmon, smok			125	813	750	100	3 :	:	: :			150	2788	5558
	, aoi ni ,	Salmon, fresh			150	15463	1800	5000	450	950	725	225	100	425 1275	39138	7828
	Trawls.	Value.	6€		27720	16800	2100 350	2700	200	175	120	250	200	900	52340	
	Tra	Number.			792	480	25	165	200	01				75	1778	
	70	Value.	69		1300	750	4730	4000	6500	5000	4500	2000	3500	15000	71380	
FISHING MATERIALS.	Seines	Fathoms.			730	200	730	51000	17000	12500	8000	18000	0000	35000 4000	195960	
MA		Number.			9	20	481	01 61	21	202	12	25	12	0 1 2 1 2 1	227	
ISHING	Trap Nets.	.9nlaV	6 9		7200	8000	800	800	1200		400	3900		008	32700	:
Ħ	Trap	Number.			100	20	122	175	ಣ	: :		N 00	:	.67	8	:
	Gill Nets.	Value.	6/9		21000	22800	18000	2300	2100	1600	1250	1500	2200	850	99.450	
	Gill	Fathoms.			35000	38000	30000	17000	30500	000032	10000	75000	45000	160000	46310 1510 583500	
		Men.			165	186	138	85 110	80	300	36	125	41	30	1510	
BOATS.	Boats.	Value.	% ∋		7400	0944	7200	3500 1400	1250	1575	1900	2700	1150	450	46310	:
AND		Number.			185	194	180	210	75.	65	82 8	110	3 5	30.5	1612	
SELS		Men.			990	980	98	325	:	: :	:	: :		0 :	2423	
FISHING VESSELS AND BOATS	Vessels.	ənlaV	66		5280 219200	4750 190000	18400 1600	58000	:	: :	:	• •		100±	187600 2423	
FISHD	Ves	Tonnage.			5280	4750	460	1675	:		:			3	12290	
		Number.			99	70	F= 50	24	:	: :	:	: :	:	:	171	
	Districts		Lunenburg County.	Lunenburg Harbour, Upper and Lower So. Rose Bay, and Kingston, and from Black Rocks to Bule and Back Harbour and Cross	2 LaHave Riv., and from Rit-	cey's Cove to New Dublin 3 Petite Rivière to County	Line. 4 Chester. 5 Mahone Bay and Martin's	River. 6 Fox Point.	8 Lodge	9 North-west Cove.	IU Aspotogan	12 Blandford	13 Little Tancook	15 Deep Cove	Totals	Values
		Number.		<u> </u>	2 La	3 Pe	T Ch	6 Fo	2 - S	ON G	O AS 1 San	2 Blg	3 Fig.	5 De		

RETURN showing the Kinds, Quantities and Value of Fish, &c.-Nova Scotia -- Con.

	Toral Value.	& cts.	437,065 80 1	471,136 46 2	54,928 75 3 33,788 84 4	216,178 00 5 11,929 00 6 3,854 25 7 1,780 00 8	283	2,2,2,2	:	1,334,509 08
20.	Fish Guano, tons.		287	50	15		· · · ·		352	2816
Fish Products	Fish used as Manure, brls.		:	:	0.2			8 2 2 2 8 8 25 2 8	510	255
н Рв	Fish used as Bait, brls.		550	250	185	1600 50 45 30			3056	4584
Fis	Fish Oils, galls.		28512	28000	2800	7500 300 80 75	25 E E	900 220 375 8375 8375	69357	27743
	Coarse and mixed fish, brls.		:	:	120	120 25 8	n o o	125 18 50	557	1114
	Tom cod or frost fish,		200	750	425	450 80 		350	2905	145
	Flounders, lbs.		:		.9500	3000 3000 3000 1200	2000 82000 3000	2500 950 1100 600	32500	1625
	Squid, brls.		125	25	06 06	255	184	02 10 70	513	2048
	Eels, brls.		200	10	10	22	404		157	1570
	Clams, brls.		150	50	15	Ž		<u> </u>	226	1518 1348 1582 1570
	Alewives, brls.		65	45	35 150	15	n : ⊢	1 2	337	1348
	Smelts, lbs.		250	20000	1000	3500 350 225		525	30350	1518
KINDS OF FISH.	Halibut, lbs.		180 132000	750 140000	8000	3400	250	2500 960 1050 	289660	28966
S OF	Trout, lbs.		180	750	120	450 800 160	: : :	225	3685	369
Kind	Pollock, cwt.		436	925	88	75 260 175 42	24.2	350 140 20 20	2919	7298
	Haddock, cwt.		1033	296	10	285.738		25 115 375	2219	77767
	Hake, dried, cwt.		:	:		125	202		885	3330 2213 7767
	Cod, tongues and sounds, bris.		125	140	19	48	::	<u> </u>	333	
	Cod, dried, cwt.		75997	88203	6208	45000 950 225 150	2222	1000 575 575 55	220638	60750 992871
	Lobsters, alive or fresh, tons.		320	280	200		4.02		810	
	Lobsters, preserved, in cans, lbs.		44700	20784	50256		43632	28500	187872	26302
	Mackerel, fresh or pres. (in cans), lbs.			:	200	200	: ; ;	2000	006	108
	Districts.	Lunenburg County.	1 Lumenburg Harbour, Upper and Lower So. Rose Bay, and Kingston, and from Black Rocks to Blue and Back Harbour and Cross Island	cey's Cove to New Dublin	Line Chester A Chester Mohone Bay and Marin's	6 Fox Point. 7 Mill Cove.	10 Aspotogan	12 Blandford 13 Little Tancook 14 Big Tancook 15 Deep Cove	Totals	Values

RETURN showing the Number, Tonnage and Value of Vessels and Boats and

		F	'ishi	NG VES	SSELS	ANI	Вод	ATS.		Fis	HII	ng M	[A]	ERIA	LS.		
	Districts.		v	essels.			 Boats	•	Gill-	Nets.		rap- Vets.		Sein	es.	Tr	awls
Number.		Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Fathoms.	Value.	Number.	Value.
	Queen's County.			s			\$			\$		\$	İ		\$		
2 3 4 5 6 7 8 9	Liverpool, Brooklyn and Gulls Island Western Head, Moose Harbour and Black Point White Point, Hants Point and Somerville Port Joli and Port Hébert Port Mouton Eagle Head and Beach Meadows West Berlin and East Berlin. Port Medway. Milton Mill Village Greenfield.	9 3 3	13 37 	8000	34	48 46 47 95 22 39	761 985 1927 492 636 1157 75	110 55 46 47 97 23 40 38 30 26	5020 3324 1248 5040 1190 2260 2758	1376 546 1944 505 900 1934	2	1000	2		700	4	98
	Totals	16	810	31900	126	503	9557	512	27168	10877	5	1660	11	1550	3185	57	77

the Quantity and Value of all Fishing Material, &c.-Nova Scotia-Continued.

					KINI	S OF	Fis	н.							Fis Produ			
Salmon, fresh in ice, lbs.	Salmon, smoked, lbs.	Herring, salted, brls.	Mackerel, salted, brls.	Lobsters, preserved in cans, lbs.	Lobsters, alive or fresh, tons.	Cod, dried, cwt.	Hake, dried, cwt.	Haddock, cwt.	Pollock, cwt.	Halibut, lbs.	Alewives, brls.	Eels, brls.	Shad, brls.	White fish, brls.	Fish oils, galls.	Fish used as bait, brls.	VALUE, TOTAL	Number.
																	\$ cts.	
4645		1099	651			3629	10	136	41	895	12				1988	130	33,050 2	0 1
• • • • •,		317				506		79	72	• ,				13	483	16	4,507 2	0 2
		372 1093 995		25776 9600 58800	279	343 189 1306		78 15 121	57 3 87	2385	25	20		6 4 15	155 70 309	10 5 30	7,378 6 $7,548 5$ $40,922 1$	$0 _{-4}$
9200 4000 8870 3710	610 500 250	198 527 379	6	36144 27024		76 46 1033	25	18 7 26	5 19 17	38000	215 45 439 164	10	6	17 10 4	82 253 398	8 4 110	6,602 4 6,641 0 13,620 2 980 0 3,690 0 1,548 0	6 7 0 8 0 9 0 10
30425	1360	4980	668	157344	279	7128	64	480	301	41330	900	30	6	69	3738	313		
6085	272	22410	9352	22028	20925	32076	160	1680	753	4133	3600	300	60	690	1495	470	126,488 3	6

RETURN showing the Number and Value of Vessels and Boats, and all Fishing Material, &c.--Nova Scotia-Continued.

	T	Number.		1284737860112841311 1284737860112841311
3H.	or pre-	Mackerel, fresh served, in can		39000 2500 330000 2000 2100 2100 2100 375600 45072
FIS	l, brls.	Mackerel, salte		
KINDS OF FISH.	brls.	Herring, salted,		300 325
K	,99i ni	Salmon, fresh,		300 3200 1500 800 15260 3052
	Trawls.	Value.	9€	8000 8000 250 250 275 475 210 11096
	Tre	Number.		1150 125 125 160 160 160 1852
M.S.	les.	Value,	CP	500
TERL	Seines	Number.		
Pishing Materials.	Trap-nets.	Value.	60	2000
Ish	Traj	Zumber.		8 9 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
~	Gill-nets.	Value.	⊕	1300 1860 1860 1860 1860 1860 1960 1150 1150 2500 2500 2500 6500 6500 6500
	Gill-	Fathorns.		14000 19000 16000 9600 9600 58500 15000 16000 16000 15900 15900 15900 15900 15900 15500 321900
ກຕໍ		Men.		13.46 145.00 145.00 17.7 17.7 17.7 17.7 17.7 17.7 17.7 1
BOATS	Boats.	Value.	₩	1600 2700 1500 6000 8600 3650 1400 11200 3800 11800 11800 11450 8500 8500
AND		Zumber.		0.000
SELS		Men.		252 253 880 111 12 12 12 13 14 14 15 15 15 15 15 15
FISHING VESSELS AND BOATS	Vessels.	·9nlaV	6/0	4000 4200 1300 700 32000 32000 1200 600 17000 3600 65000
ISHI	Ve	Tonnage.		852 1233 50 50 50 50 50 50 50 50 50 50 50 50 50
H		Number.		
	Пустругта	·	Shelburne County.	1 Barrington 2 Wood's Harbour 3 Shag Harbour 3 Shag Harbour 1 Bear Point 5 Cape Island 6 Port La Tour and Baccaro. 7 Upper Port La Tour 8 Cape Negro and Blanche. 9 Cape Negro Island 10 Port Clyde. 11 North-east Harbour 12 Black Point, Red Head and Round Bay 13 Roseway and McNutt's Island. 14 Gunning Cove, Churchover, and Birchtown. 15 Shelburne and Sandy Point 16 Jordan. 17 Lockeport 1 Lockeport 1 Tockeport

RETURN showing the Number and Value of Vessels and Boats, and all Fishing Material, &c.-Nova Scotia-Continued.

	Number.	1 00	122847667886011111111111111111111111111111111
	TOTAL VALUE.	cts	36,264 75 88 0.72 38 8.80 0.72 38 8.90 0.72 38 8.90 0.72 38 4.81 30 248,489 5.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
SH UCTS.	Fish used as bait, brls.		20000 50000 700 700 14400 500 500 900 19575
FISH PRODUCTS	Fish oils, galls.		1200 300 400 4500 4500 4500 4500 4500 475 600 475 600 2800 2800 2800 2800 400 400 400 400 400 400 400 400 400
	Tom-cod or frost fish,		20 400
	Eels, bris.		108 0.5 0
	Clams, brls.		30 60 60 50 76 76 70 70 70 70 70 70 70 70 70 70 70 70 70
	Alewives, brls.		690 30 200 200 425 70 60 10 10 17 50 6820
	Smelts, lbs.		325 1 180 5000 5000 575
ISH.	.sdl ,tudilsH		1000 800 2000 900 110000 2000 1400 950 2500 2100 1000 6000 137450
KINDS OF FISH	Trout, lbs.		2000 2400 2400 22000 110770
KIND	Pollock, cwt.		200 250 800 2000 2000 2000 200 200 200 200 200
	Haddock, cwt.		2100 165 600 1000 4400 800 175 830 830 175 830 830 175 830 150 150 150 184 1353 1354 1353 1353 1353 1353 1353 135
	Hake, dried, cwt.		25 25 10 1120 1130 2960
	Cod, dried, cwt.		2900 1100 1100 500 12000 2330 500 500 500 500 500 500 500 500 500
	Lobsters, alive or fresh, tons.		79392 2900 23803 86 86028 80 1100 50 17424 310 17760 50 17760 75 225 2350 16 50 17760 75 10 50 2540 25 2640 26 27 2880 2800 14 2900 14 2400 26 25 26320 1120 1120 7475 2836 28465 2925 1184 188 28465 2925 28465 283163 28465 283163 28465 283163 28465 283163 28465 283163 28660 283163 28660 2836
	Lobsters, preserved in cans, lbs.		79392 23808 86928 17424 17760 25440 25440 274752 38465
	Districts.	Shelburne County.	1 Barrington 2 Woods Harbour 3 Shag Harbour 4 Bear Point 5 Cape Island 6 Port La Tour and Baccaro 7 Upper Port La Tour 8 Cape Negro and Blanche 9 Cape Negro Island 10 Port Clyde 11 North-east Harbour 12 Black Point, Red Head and Round Bay 13 Roseway and McNutr's Island 14 Gunning Cove, Churchover, and Birchtown 15 Shelburne and Sandy Point, 16 Jordan. 17 Lockeport 1 Lockeport 2 Lockeport 2 Lockeport 2 Lockeport 2 Lockeport 2 Lockeport
	Number.		198470F000H28470F

RETURN showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.—Nova Scotia—Continued.

	Cod, dried, cwt		9950 2100 125 7000 1000 13310 150 100 100 100 33835	152258
ac	Lobsters, slive of fresh, tons.		160 75 150 2000 1000 1200 450 300 1555	116625
ni ,bəv:	Lobsters, presen		43200 79728 6728 378960	71206
l, brls.	Mackerel, saltec		25 200 200 50 1600 2190 4755	66570
sol ,b	Herring, smoke		20000	40
brls.	Herring, salted,		1140 500 1515 6000 2500 2500 4880 875 6000 100	105795
eəj u	Salmon, fresh, ir		8000 8000 3500 1200 1200	4740
wls.	Value.	€€	500	
Tra	Number.		233 233 246 446 777	1:
eirs.	Value.	69	159 100 100 650	1
=====	Number.		: : : : : : : : : : : : : : : : : : : :	1:
lrap- nets.	√.slue.	€		
	Number.			:
nets.	Value.	99	1	:
Gill	Fathoms.		t t	
	Men.		242 250 250 250 250 250 250 250 250 250 25	1:
Soats.	Value.	9€	230 1120 150 1000 1000 1200 150 200 200 200 200 200 200 200 200 200 2	:
	Number.		23 25 25 25 25 25 25 25 25 25 25 25 25 25	:
	Men.		155 38 38 14 180 6 6 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8	
essels.	Value,	€₽	18300 3500 625 8000 300 300 300 300 52725	:
>	Tonnage.		625 170 170 395 12 12 21 21 2072	1 :
	Number.			1:
December	DISTRICTS.	Yarmouth County.	est Pubmico. ast Pubmico. sever Aigyle and Sound. sever Maitland ort Maitland armouth. unce Point unce Point unsket. Insket. Totals.	Values
	Vessels. Boats. Gill-nets. Trap- Weirs. Trawls. Drie. 1. bries. Trawls. Or Dries. Drie	Tonnage. Value. Men. Men. Men. Mumber. Value. Tumber. Value. Value. Value. Walue. Walue. Tag. Value. Walue. Walue. Walue. Tag. Value. Tag. Value. Walue. Walue. Tag. Walue. Walue. Tag. Menner. Menner. Menner. Menner. Menner. Walue. W	Vessels. Vessels. Vessels. Poats. Trapp. Value. Gall.nets. Trapp. Value. Gall.nets. Value.	

Return showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries, Fishing Material, &c.—Nova Scotia—Continued.

	Total Value.	& cts.	2025 2025 203 194 00 33 238 92 22 976 92 25 45,422 50 27 47 50 21 085 00 21 085
*8	Fish used as manure, bri		
	Fish used as bait, brls.		288 86 100 400 1000 75 655 650 10 10 10 2619
	Fish Oils, galls.		2400 300 200 2000 2000 2900 28825 3530
	Tom Cod or frost fish, Ibs.		200000
	Boneless cod, lbs.		2000000 2000 100000 2120000 16960
	Smoked Finnan Had-dies, Ibs.		6000 15000 21000
	Smoked Alewives, No.		2 20000 50000 8000 8000 83600
	Squid, brls.		32 32 200 200 200 308 398
	Shad, brls.		000000000000000000000000000000000000000
SH.	Kels, brls.		200 100 300 200 200 4356
Ä	Clams, brls.	,	200 100 100 100 100 100 100 100 100 100
KINDS OF FISH.	Alewives, brls.		250 250 115 50 75 800 4000 600 600 5250 5290
×	Smelta, lbs.		1000 12000 2000 10000 5000 10000 52000 2500 80000 1500 400 66500 106400 6650 5320
	Halibut, Ibs.		
	Trout, lbs.		10500 10500 10500
	Pollock, cwt.		1500 550 550 200 1500 1150 1150 1150 115
	Haddock, cwt.		2650 700 1000 1000 1000 1000 1000 6675 23363
	Hake, dried, cwt.		263 263 263
	Cod, tongues and sounds, brls.		390
	Districts.	Yarmouth County.	1 West Pubnico. 2 East Pubnico. 3 Lower Argile and Sound. 4 Tusket Wedge. 5 Port Mardand. 6 Sandford. 7 Yarmouth. 8 Sluice Point
	Number,	1	1120947001121

RECAPITULATION

Of the Yield of the Fisheries of District No. 3, Nova Scotia, 1896.

Kinds of Fish.	Quantities.	Rate.	Value.		Total.	
		\$ cts.	\$	cts.	8	cts
Salmon, fresh Lbs.	212,373	0 20	42,474	60		
do smoked	4,148	0 20	829		43,304	20
Herring, salted Brls. do fresh Lbs.	101,328 $103,995$	4 50 0 01	455,976 1,039			
do smoked	681,900	0 02	13,638		470,653	95
Mackerel, salted Brls.	7,045	14 00	98,630		2,0,000	-
do fresh Lbs.	391,500	0 12	46,980		145,610	00
Lobsters, canned	1,172,584	0 14	164,161			
do fresh or alive Tons.	$7,184\frac{1}{2}$	75 00	538,837		702,999	26
Cod, dried Cwt.	358,135 $212,000$	4 50 0 08	1,611,607			
do (boneless)	472	10 00	16,960 $4,720$		1,633,287	50
Haddock, dried	65,367	3 50	228,784		1,000,201	00
do finnan haddies	321,000	0 08	25,680		254,464	50
Hake, dried Cwt.	45,365	2 50	113,412	50	,	
do soundsLbs.	9,073	0 50	4,536	50	117,949	
Pollock, dried Cwt.	36,825	2 50			92,062	
Frout Lbs.	39,455	0 10 0 10			3,945	
Halibut	$\begin{bmatrix} 695,440 \\ 2,650 \end{bmatrix}$	0 10			69,544 265	
Smelts	144,255	0 05			7,212	
Alewives, salted	9,711	4 00	38,844		,,212	10
do smokedLbs.	36,000	0 01	360		39,204	00
shad Brls.	989	10 00			9,890	
lels u	735	10 00			7,350	
quid II	6,160	4 00			24,640	
ardines	2,476	7 00 4 00			17,332	
ardines	35,550	0 05			800 1,777	
om cod	48,805	0 05			2,440	
Coarse fish Brls.	3,882	2 00			7,764	
Vhitefish "	69.	10 00			690	
Sish oil Galls.	153,097	0 40			61,238	
do bait Brls.	40,691	1 50			61,036	
do manure	$\begin{array}{c c} 4,367 \\ 530 \end{array}$	0 50 8 00			2,183 4,240	
Total for 1896 Total for 1895					3,781,884 $3,715,572$	
					0,110,012	00
Increase					66,311	75

Table showing the Number and Value of Fishing Vessels, Boats, Nets, &c., used in the District No. 3, Nova Scotia, including an Estimate of other Fixtures not included in Returns, 1896.

Fishing Material.	Value.	Total.
	\$	\$
386 fishing vessels (20,005 tons.)	766,785	
4,866 boats	127,148	
062,423 fathoms of gill-nets 209,904 do of (286) seines	202,848	
136 trap-nets	87,840 69,060	
of weirs	13,340	
11 smelt nets	650	
240 dip-nets	240	
4,230 trawls	74,232	4 0 10 4
34 lobster canneries (477 hands)	24,700	1,342,143
91,152 do traps	99,060	
		123,760
1,642 smoke or fishhouses	100,488	,
1 drying fishhouse. 123 freezers and icehouses.	7,000	
36 fishing steamers and smacks.	$\begin{array}{c c} 14,080 \\ 42,410 \end{array}$	
583 piers and wharfs	76,266	
-		240,244
Total		1,706,147

RECAPITU

RETURN showing the Number and Value of Vessels and Boats engaged in the Number of Men employed in the Fishing Industry of

			Fis	HING VE	SSELS	AND I	Boats.						Fis	SHING
	Counties.		Ve	essels.			Boats.		Gill-No	ets.	Traj	p-Nets.	Weirs.	
Number.		Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Value.
			i	s	1		s			s	1	s		s
2 3	Cape Breton Inverness Richmond Victoria	12 25 74 4	199 480 2,417 85	3,900 13,100 36,095 1,400	65 123 562 21	771 845 1,521 911	18,242 15,383 24,497 15,341	1,330 2,090 2,074 1,394	60,885 68,242 258,090 55,739	$26,774 \\ 24,353 \\ 72,050 \\ 17,736$	1	300 700 1,000	52 5	416 80
6 7 8 9 10	Antigonish		55 92 601 1,531	1,600 1,000 15,480 39,315	11 17 159 367	181 112 154 2,266 2,575 73 274	2,639 2,092 5,015 58,754 39,303 1,280 5,326	240 210 190 2,620 2,607 81 485	66,450 16,140 3,070 368,500 283,612 7,318 9,118		57 10	11,000 1,150	13 3	3,350 100
13 14 15 16 17	Annapolis. Digby King's Lunenburg. Queen's Shelburne Yarmouth	8 171		14,310 41,500 2,400 487,600 31,900 136,350 52,725	$\begin{array}{c} 424 \\ 25 \\ 2,423 \\ 126 \\ 880 \end{array}$	223 393 69 1,612 503 1,556 510	1,311 46,310 9,557 42,240	359 747 115 1,510 512 1,794 816	23,400 60,135 4,470 583,500 27,168 321,900 41,850	24,890 2,040 99,450 10,877 40,115	1 35 81 5 8	32,700 1,660 14,500	39	3,050 2,390 7,250
	Totals	593	25,465	878,675	5,801	14,549	315,020	19,174	2,259,587	504,625	3 207	83,210	173	18,09

LATION.

Fisheries, Fishing Materials, and the Kinds and Quantities of Fish, as well as the of the Province of Nova Scotia, for the Year 1896.

Ma	TERIAL.						Kin	DS OF F	ISH.			
Number.	Fathoms.	Value.	, salted, bris		Salmon, preserved in cans, lbs.	Salmon, smoked, lbs.	Herring, salted, brls.	Herring, fresh or frozen, lbs.	Herring, smoked, lbs.	Mackerel, salted, brls.	Mackerel, fresh or preserved in cans, lbs.	Lobsters, preserved in cans, lbs.
		\$										
2 3	250 525 120	500 600 60	106 16 27 259	31,647 68,535 6,750 8,220	2,816 480 1,828		3,643 9,748 12,905 3,984	111,000	5,000	2,916 4,118	6,400	239,620 514,680
8 29 11	260 3,270 42,875			33,150 53,313 14,050 50,985 22,288 10,515 26,100	3,000	1,300 2,335	212	1,800 218,400 13,000 2,000 42,800	23,000 1,100 1,500	6,303 1,885	1,315,877 2,640	836,416
33 13 27 11 2	3,650 6,144 195,960 1,550 2,600	9,225 3,400 71,380 3,185 650		20,550 4,350 78,950 39,138 30,425 15,260 23,700			4,435 416 2,819 29,053 4,980 36,115 23,510	59,420	7,000 23,000 645,000 4,900 2,000	26 1,323 668 263		187,872 157,344 274,752
10	257,204	155,145	408	537,926	8,124	7,783	158,236	508,895	712.500	25.345	1,717,317	5 363 300

RECAPITU

RETURN showing the Kinds and Quantities of Fish,

					ŀ	CINDS OF	FISH.				
Countries.	Lobsters, fresh or alive, tons.	Cod, dried, cwt.	Cod, tongues and sounds, brls.	Hake dried, cwt.	Hake, sounds, lbs.	Haddock, cwt.	Pollock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Bass, lbs.
1 Cape Breton 2 Inverness 3 Richmond 4 Victoria	$egin{array}{c} 2rac{3}{4} \\ 139 \\ 8 \\ 2rac{1}{2} \end{array}$	13,460 23,511 28,669 16,673	50 13	53 4,418 238	1,625	2,364 2,516 7,460 1,040	134 1,533	5,390 23,900 6,485		13,500 40,600 33,800 63,807	400
5 Antigonish	3 26 261½	709 115 310 24,265 17,374 58 226	15	1,774 11 1,279 1,680		160 21 95 19,628 3,698 5	32 1,494 2,817	$\begin{array}{c} 1,400 \\ 4,450 \\ 1,400 \\ 26,460 \\ 7,670 \\ 10,000 \\ 1,350 \end{array}$	2,400 175,250 32,605 700	39,760 48,595	1,200 1,000 1,220
12 Annapolis	$ \begin{vmatrix} 60 \\ 23\frac{1}{2} \\ 1,500 \\ 810 \\ 279 \\ 2,957 \\ 1,555 \end{vmatrix} $	6,865 25,514 1,230 220,638 7,128 62,925 33,835	333	35,015 885 64 1,184	5,353	14,152 28,852 435 2,219 480 12,554 6,675	5,447 17,998 275 2,919 301 4,905 4,980	12,100 2,400 3,685 10,770 10,500	93,500 289,660 41,330 137,450	2,000 30,350 5,505 106,400	250
Totals	7,6274	483,505	574	54,930	19,665	102,354	42,835	127,960	1,017,707	494,897	6,58

LATION.

Province of Nova Scotia, for the Year 1896—Continued.

			Kn	NDS O	F Fish					Fish 1	Produc	TS			
Alewives, brls.	Oysters, brls.	Clams, brls.	Eels, brls.	Shad, brls.	Squid, brls.	Flounders, lbs.	Tom Cod or Frost Fish,	Coarse and Mixed Fish, brls.	Fish Oils, galls.	Seal Skins, No.	Fish used as bait, brls.	Fish used as manure, brls.	Fish guano, tons.	TOTAL VALUE.	77.0
429 670 1,400 42	53 786 	94 229 418 43	384 732 230 288		789 3,487 487 2,758		23,250	3 415 380 10,691	12,998		3,124 4,753 1,246 3,905		190 271	301,966 343,721	70 75
204 134 680 2,097 1,130 404 150	90 54 450 2	319 629	195 2 10 816 120 75	403 375 312	6,575 146		6,340 400	95 130	38 45 37,231		824 	40 1,200 4,410 6,140 1,175		88,184 646,116	00 00 00 00 00
176 1,303 337 900 1,705 5,290		700 452 226 1,008 90	157 30 108 435	220 326 407 6	5,250	2,000 1,050 32,500	2,000 3,500 2,905 400 40,000	3,000 325 557	3,270 44,610 400 69,357 3,738 22,897 8,825		4,085 10,533 510 3,056 313 19,575 2,619	517 885	352	1,334,509	20 00 08 36 33
17,051	2,460	4,208	3,587	2,105	20,402	109,680	82,795	15,691	243,650	1,103	76,419	17,392	991	6,070,895	18

Note—Add to value of	No. 2,	6,500	lbs. dogfish	\$ 65
do			do	
do			brls. sardines	
do			brls. whitefish	
do	No. 18,	212,000	lbs. boneless cod	16,960
do	do	21,000	lbs. finnan haddies	1,680
do	do	36,000	lbs. smoked alewives	360

RECAPITULATION

OF the Yield and Value of the Fisheries of the whole Province of Nova Scotia, for the year 1896.

Kinds of Fish.	Quantities.	Rate.	Value.	Total.
		\$ ets.	\$ cts.	\$ ets
Salmon, pickled Brls. do fresh Lbs. do canned " do smoked "	408 537,926 8,124 7,783	16 00 0 20 0 15 0 20	6,528 00 107,585 00 1,218 60 1,556 60	
Herring, pickled Brls. do fresh Lbs. do smoked "	158,236 508,895 712,500	0 02	689,352 00 5,406 20 14,250 00	116,888 20
Mackerel, pickled Brls. do fresh or preserved Lbs.	25,345 1,717,317	14 00	354,830 00 113,754 00	709,008 20
Lobster, preserved, in cans	$5,363,300$ $7,627\frac{1}{4}$	0 14 75 00	750,860 68 572,044 25	468,584 00
Cod, dried	483,505 212,000 574	0 08 10 00	2,134,615 50 16,960 00	1,322,904 93
Haddock, dried	102,354 321,000	0 08	341,515 50 25,680 00	2,157,315 50
Hake, dried	54,930 19,665		134,969 50 9,832 00	367,195 50
Pollock, dried Cwt. Irout Lbs. Halibut " Smelts " Bass " Eels Brls. Shad " Alewives " do smoked Lbs.	$\begin{array}{c} 42,835 \\ 127,960 \\ 1,017,707 \\ 494,897 \\ 6,580 \\ 3,587 \\ 2,105 \\ 17,051 \\ 36,000 \end{array}$	0 10 0 10 0 05 0 10 10 00 10 00 4 00 0 01	66,933 50 360 00	144,801 50 106,253 00 12,796 00 101,770 70 24,744 10 658 00 35,870 00 21,050 00
Dysters. Brls. Clams. " Squid. " Sardines. " Flounders. Lbs. Con-cods. " White fish Brls. Coarse fish " Log fish Lbs.	2,460 4,208 20,402 2090 109,680 82,795 69 15,691 189,500	4 00 4 00 4 00 0 05 0 05 10 00		67,293 50 9,840 00 28,672 00 81,608 00 5,484 00 4,139 75 690 00 42,711 00 1,895 00
seal skins No. Fish oil Galls. Fish as bait Brls. do as manure " do guano. Tons.	1,103 243,650 76,419 17,392 991	0 40 1 50 0 50		1,895 00 1,373 50 97,458 80 114,628 50 8,696 50 15,765 00
Total for 1896				6,070,895 18 6,213,131 07
Decrease				142,235 89

TABLE showing the Lobster Plant, and Number of Employees in Canneries, also other Fixtures used in the Fishing Industry, not included in previous returns, in Nova Scotia, 1896.

		Lobste	R PLAI	NT.	employed.		Отне	r Fixi	ures (SED IN	Fishi	ERIES.	
Counties.	Canı	neries.	Traps.		hands	aı	Freezers and Ice houses.		Smoke and Fish houses.		ers ad arfs.	Tugs, Steamers and Smacks.	
	Number.	Value.	Number.	Value.	Number of	Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
	,	\$		\$			\$		\$		\$		\$
Cape Breton Inverness Richmond Victoria	14 16 17 17	16550 12100 9650 4660	31500 36485 54605 19080	18865 18385 27300 11535	515 300 503 252	7 18 4 3	227 1995 2200 200	311 346 230 296	8525 13478 5900 20387	104 65 20 58		5 26	1975 390 1477 630
Antigonish	5 1 21	7800 1200 15625	1100 24958	15130 770 13759	141 7 258			50	970 75	1	100		700
Guysboro' Halifax Hants	28 27	39800 18850	98226 59479	54641 24050	650 305	29 8	18830 525	586 985 5	42755 25448 80	231 747	28977 16027	32	22620 3250
Pictou Annapolis	26 1	41150 1000	45400 9175	29650 6869	431	16	890	135	5090	9	260		
Digby	3	1450	18275	9533	30	43 25	$2730 \\ 1260$	110 75	9230 4580	30	17350		
Lunenburg Queen's Shelburne. Yarmouth	9 7 8 6	4550 2000 9600 6100	20850 11877 81875 49100	6250 4658 47200 24550	118 77 129 117	7 19 13	1675 4000 3525	572 179 363 208	38220 3863 21025 18480	322 32 168 31	25000 741	6 7	3550 535 1925 36400
Totals	206	192085	587612	313145	3839	192	38057	4454	218106	1818	173340	133	73552

RECAPITULATION

Showing the Number and Value of Fishing Vessels, Boats, Nets, &c., in the whole Province of Nova, Scotia for the year 1896.

Article.	Value.	Total.
	\$	\$
593 Vessels, 25,565 tons	878,675	
14,549 Boats	315,020	
2,259,587 Fathoms gill-nets.	504,623	
740 Seines, 257,204 fathoms	155,145	
207 Trap-nets.	83,210	1
8,992 Trawls	94,771	
173 Weirs.	18,096	
180 Smelt nets	2,707	
	2,707	
240 Dip-nets	240	2,052,487
206 Canneries (3,839 hands)	192,085	2,002,401
587,612 Traps	313,145	
901,012 11aps	919,149	EUE 050
192 Freezers and icehouses	20 057	505,230
	38,057	
4,454 Smoke houses and fish-houses	218,106	
1,818 Piers and wharfs	173,340	
133 Steamers and smacks	73,552	
3,753 Hand lines.	1,981	P10.000
1 Drying fishhouse	7,000	512,036
Total value		3,069,753

APPENDIX No. 4.

NEW BRUNSWICK.

District No. 1, comprising the county of Charlotte.—Inspector J. H. Pratt, St. Andrews.

District No. 2, comprising the counties of Restigouche, Gloucester, Northumberland, Kent, Westmorland and Albert.—Inspector R. A. Chapman, Moncton.

District No. 3, comprising the counties of St. John, King's, Queen's, Sunbury, York, Carleton and Victoria.—Inspector H. S. Miles, Oromocto.

DISTRICT No 1.

REPORT ON THE FISHERIES OF DISTRICT No. 1, NEW BRUNSWICK, COMPRISING THE COUNTY OF CHARLOTTE, FOR THE YEAR 1896, BY INSPECTOR JOHN H. PRATT.

St. Andrews, N.B., 2nd January, 1897.

Honourable L. H. Davies,
The Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to submit herewith my eighth annual report on the fisheries of District No. 1, N.B., comprising the county of Charlotte, and including the islands at mouth of bay, with the fisheries of Chiputneticook lakes. These lakes extend from St. Croix northward, along the international boundary line between the province of New Brunswick and the state of Maine. Tabulated statements giving quantities and values of each kind of fish are also herewith, together with a synopsis of the several officers fisheries reports to me.

Considering the low prices paid during the year to the fishermen, a very favourable season is shown, when compared with previous seasons. An increase of \$142,280.26 in the value of the catch over the previous year of 1895, will be noticed,

The value of the catch for the past season is as follows:-

I have already forwarded your department a preliminary report of the fisheries of the district controlled by me, which dealt with the fisheries during the past season of 1896, but there are other matters which may be necessary to be further reported on in this my annual report for the season. I have already made special reports on various matters during the past year, which need not be touched on here.

I would also desire to draw your attention to the fact that numbers of vessels come into this district and catch their loads of fish and the returns for those cargoes do not enter into the accompanying statistics, but will probably be found in the returns from some other district, probably in the Nova Scotia returns. Most of the visiting fishing schooners hail from ports in that province.

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During the past season I made several cruises in this ship on the Nova Scotia coast, and during the spring and autumn visited the coast of Cape Breton. I was principally employed there in protecting the three mile limit from the encroachments of United States fishing vessels and in enforcing the observance of the fishery laws by Canadian fishermen.

The lobster regulations seemingly offer the greatest temptation to our fishermen to violate them, but I am pleased to say several very good lessons were taught them

at a number of places I called at, where fishing was attempted.

However, I have dealt with all matters relating to cruising in the "Curlew" in my annual report on the ship's work for the past year, which will be found elsewhere in your departmental reports.

SALMON.

Although this fish is not taken for commercial purposes in this district, numbers of them are taken by sportsmen with the rod and fly on the St. Croix River. Overseer Todd reports an increase of the salmon in the St. Croix over all previous years. Some posching was attempted by a number of turbulent characters, who still reside along that river, but owing to the vigilance of Overseer Todd and his associates on the Canadian and American sides of the stream, little if any success attended the poschers' efforts at netting. It seems impossible to do without the special guardian services on the St. Croix River during the past few seasons, and I would strongly urge their re-appointment during the coming season, between April and November.

Several contradictory stories are told regarding salmon ascending the Magaguadavic River during the past season, but the reports have not been fully verified. The river is being narrowly watched by numbers of persons interested in its welfare as a salmon river, and the first favourable results will be immediately reported to your department.

HAKE.

About double the catch of hake is reported this year over that of 1895. It is not, I believe, that the fish were any more plentiful than formerly, but the great decrease in the schools of dog-fish on our shores, gave the fishermen more encouragement to engage in this fishery. It was quite a common sight in 1895 and former years for a man to haul his trawls and find one-half of the hooks holding a dog-fish when the owner of the trawl earnestly hoped they would have been occupied by hake, haddock or cod.

POLLOCK.

An immense increase will be noticed in the catch of pollock. In the Quoddy River, especially, they were very plentiful, but the prices paid for them were so low, that numbers of the fishermen went at some other branch of the business.

HADDOCK.

An increase of 3,000 quintals over that of last year is noticed in the haddock catch. They were quite plentiful at certain periods during the season, and brought a ready sale at the different markets. The principal cause of the increase in the catch is mainly due to the fewer schools of dog-fish this year on the grounds. The prices paid for haddock continued quite low all season.

MACKEREL.

Mackerel were not found in this district during 1896, I very much regret to say. The eatch of 81 barrels reported in the returns were caught in the Gulf of St. Lawrence during the summer by two vessels which were owned and fitted out in this district.

In the memory of "the oldest inhabitant," the mackerel frequenting the Passamaquoddy waters have appeared and disappeared in a most irregular manner. It is now several years since any were taken here, but we need not be surprised if in the very near future they appeared in the Passamaquoddy waters again.

COD.

The eatch of cod remains about the same as last season, over 9,000 quintals. During the year they were fairly plentiful, but the prices paid the fishermen were very low. The above would not represent the eatch of cod in the district, as many vessels hailing from other districts did not report their catches here. Dog-fish did not trouble the cod fishermen as in 1895.

On account of the light demand in the market for all kinds of line fish, together with the poor prices paid, numerous fishermen turned their hands to other work,

which offered better financial results.

LOBSTERS.

Only a slight decrease is noticed in the catch of lobsters, when compared with last season. The fishery was prosecuted by about the same number of fishermen

and the demand for all sizes was good at remunerative prices.

It is a pleasure to note the increasing value of this fishery year by year, and the manifest desire of even the fishermen themselves that stringent measures should be enacted for its preservation. Even with all the precaution taken, and the sentiment of the fishermen condemning the violations, a number of disreputable characters will secretly set traps in several out of the way places. I destroyed several hundred traps during the past fall, and I hope to secure the names of some of the guilty parties, that they may be suitably punished.

Owing to the lobster regulations now in force in the State of Maine, prohibiting the catching of lobsters at any time under 10½ inches in length, some of the lobster canners have come to the Canadian side and erected factories. Their presence has given considerable employment to a large number of people, and been of great benefit to all, by canning the small lobsters on our side instead of the United States.

The canneries in this district during the season packed 3,424 cases, while in former seasons not more than 170 or 200 cases would be the total pack. The feeling is increasing among the fishermen of the district, and in fact in the whole Bay of Fundy, that the size limit of 9 inches, under which size none shall be caught, should be raised to $10\frac{1}{2}$ inches. Although the fishermen are aware that the raising of the legal size limit will prevent lobster canning, yet they believe unless something of this kind is done speedily, the lobsters will slowly but surely decrease in numbers and size. It is remarkable the various opinions at present existing among fishermen and dealers as to the measures necessary for the restocking of our waters, and the preservation and increase of the lobster fisheries. It makes it extremely difficult to frame suitable laws when such differences exist.

HERRING.

I have great pleasure in reporting that in spite of the alarming reports in circulation, that the herring have all been destroyed in the Bay of Fundy, they are just as plentiful as ever. The supply in Charlotte County seems to be governed simply by the demand. Like all deep-sea fish, herring are somewhat erratic in their movements, and do not always frequent the same locality during successive seasons. This leads to the opinion, often loudly expressed to those who do not give the matter proper study and attention, that "the herring fishery is totally ruined." I have in my possession the report of a commission appointed by the House of Assembly of this province in 1836, to inquire into the herring fishery of Grand Manan, it having been reported as declining greatly and almost ruined.

Owing to frequent strikes during the year of the employees in the sardine canneries on the United States side, the demand for small herring was very irregular, and when caught in a weir were often liberated on account of no purchasing boats having left Eastport. During the fall months herring of a large size were very plentiful at Grand Manan, and big hauls were made in the weirs and gillnets. This shows that the statement of the herring fishery being ruined is the same "old, old story." I do not depy but what proper regulations for the government of this fishery, should be enforced, and unnecessary waste must be guarded against. Prices for herring, whether fresh or cured, ruled very low all the season. The market for canned sardines was very dull, and the rates quoted by the New York selling agents touched a lower point this year than ever before. went lower than the cost of manufacture, and it was deemed advisable to store thousands of cases at the factories in anticipation of a future rise in value. During last winter no net herring were caught on the "north shore" of the Bay of Fundy, and various conflicting reasons are assigned by those interested as to the cause of their non appearance during the winter season. Some advance the theory that it is owing to net fishing of spawn herring, others, that weir fishing for small herring is the cause, and others again assert that the weirs on the spawning ground is one of the principal causes of the decline of the winter herring fishery. This matter has been the subject of much interesting debate in years gone by, and will doubtless be in the future. However, we have the experiences of the rise and decline of the herring fisheries of other countries to profit by. During the year 309 herring weir licenses were issued, against 355 issued in 1895. Not more than two thirds of those weirs were built.

CAMPOBELLO FISH FAIR.

Before closing my report, I would wish to make reference to the beneficial effects of this fair on the fisheries of this district. Its objects are of the best, and deserve the hearty support of the fishermen and all those interested in the fisheries of the county. Notwithstanding the fact that the day appointed for this fair and sports to be held at Welchpool by the Campobello Fisheries Society, was a stormy of the county. and very disagreeable one, the splendid programme prepared by them was carried out to the letter. Beautiful exhibits of all kinds of cured fish were on view in the exhibition rooms on the wharfs of James Calder, Esq. I do not believe those exhibits could be excelled in any part of the world, and were inspected by hundreds of admiring visitors during the day. The aquatic sports, consisting of sailing and rowing races for different classes of boats, took place in the afternoon, and excited intense interest. The annual dinner of the society took place in the evening, at which many distinguished residents of the county were present. A grand ball, which was largely attended, finished the day's festivities. It is needless for me to dilate on the great benefits derived by our fishermen from the competition necessary to secure the handsome prizes offered for the best cured fish. It has a stimulating effect on the better curing of the several varieties of fish, placed on the various markets for sale.

If delegates from the several districts of the county were sent to this fair, and a formal conference held, relative to matters affecting the fi-hing interests of the county, considerable benefit would result from the interchange of ideas. Nearly all branches of business are now organized for mutual help and protection, but fishermen are not, and this in a manner accounts for the diversified opinions held by them regarding all matters affecting the fisherics.

SYNOPSIS OF OFFICERS' REPORTS.

Overseer Brown, of Campobello, reports a decrease in the aggregate value of the catch in his district this season, owing to the low price of fish and to the smaller number of men engaged in the industry. The herring catch will equal that of last

year, and the schools were as splentiful as ever, but there was a great decline in the price. About half the usual quantity was pickled, but more were smoked than during the previous season.

Pollock and haddock will show a large increase in the catch, owing doubtless to the decreased number of dog-fish in the bay. Other line fish will average about

the same catch as 1895. The lobster catch will also equal that of last year.

Overseer Campbell, of St. Andrews, reports "herring were plentiful in my district and in St. Andrew's Bay, sardine herring were never so numerous. In fact, during the past two or three years the whole of my district has swarmed with those fish. Owing to the depressed American market the demand this year has been weak. In Digdeguash, particularly small herring have been very plentiful during the year, and the supply in all parts of my district has far exceeded the demand. On many occasions after the fish were taken from the weirs buyers could not be found, and the owners were compelled to use them as a fertilizer on the land. There was no net herring taken in my district during the year, although there was supposed to be numerous schools in the St. Andrew's Bay during the winter.

"Line fishing has developed into a valuable industry during the past two years, owing to the rapid increase of fish in the bay, where their feed is now so plentiful,

and to their ready purchase by a fish company inSt. Andrew's.

"There has been no mackerel in my district for some years.
"A large quantity of smelts have been found in the herring weirs, and have been

sold for local consumption, bringing about five cents a pound.

"The lobster fishery has been about the same as in 1895, with prices rather better. It is difficult to get correct returns of this fishery, as numbers of the traps are fished by Deer Island men who make their returns to their own officer. Lobsters in the inner bay seem to be getting fewer each year, while their size keeps the same or larger. This I attribute to the winter fishing, when the female lobster is not covered with spawn and cannot so easily be told from the male, and consequently taken when they should not be. This is the opinion of some of the old fishermen, and I heartly coincide with them. I would suggest that lobster fishing be allowed from October 1st or 30th to January 1st, and from March 1st or 15th to June 30th, in this bay.

"A number of Nova Scotia schooners have taken from my district about 1,500

barrels shelled clams.

"With respect to the lobster fishery, there should be a regulation stating how far apart traps should be set, and I would strongly advocate a close season of two or three years for St. Andrews Bay and St. Croix River. This is the only plan, in my opinion, that would be feasible in re-stocking those waters cheaply and quickly.

"Our papers just now are discussing the question of oyster culture here, which was tried a few years since by Mr. Hatton, of Montreal, but his attempt was unsuccessful. The tides have too much rise and fall, and there are no native oysters in the Bay of Fundy. I would again impress on your attention the necessity of a small steam launch in connection with the "Curlew" and to be used partly by the local officers. It would be a great assistance to the local officers and keep matters

much straighter than they are at present."

Officer Dick, of Latête and L'Étang District, in his report states that the catch of sardine herring was small, owing to the slow demand when catches were being made by the weirs. Herring, however, were as plentiful as in 1895. The catch of lobsters, he reports, will be about the same as the previous one, and high prices prevailed during the season. Line fishing as good as 1895, with prices lower, and the same number of men employed in it. Considerable illegal fishing for lobsters and herring was attempted, but by energetic measures taken at the beginning, I managed to prevent it and drive the parties away.

Overseer Cross, of Beaver Harbour, in his annual report states there has been a large increase in the catch of cod, hake and pollock. The hake has been in shore and gave the fishermen a better chance. Large herring were scarcer, but small herring have been as plentiful as in former years, but were not all taken from the

weirs, on account of the slight demand.

The lobster catch will be about the same as last year, but realized better prices,

and more lobsters have been canned this year than last.

The sardine factories here and at Black's Harbour have packed an increased number of cases over preceding years, and fair prices were realized. It is a pleasure to be able to state that the fishermen of my district have made a fairly good season's catch.

Special Guardian Haney, at West Isles, states there has been a slight falling off in the herring pickled during the year, also a large falling of in the quantity of small herring taken for sardine purposes. There has been no herring smoked in this district, there being very little demand. Prices of all kinds of fish have ruled lower than last year except for fresh haddock, which showed an increase in price.

Lobsters show an increased catch over last year, and the returns also show an increase in codfish. The increased codfish catch was due to there being more hands employed at line fishing, owing to the fact that many weir fishermen had to leave the weirs and take up some other branch of fishing. In pollock there has been a very large increase in the catch, owing to the fact of more people being engaged in this fishery, and an enormous increase in the schools of fish. Very few smelts were caught this season, because of the presence of pollock and silver hake along shore.

Overseer Martin, of Grand Manan, in his annual report states: "I am grateful to be able to report an increase in all branches of the fisheries. The catch of cod show an increase of a thousand quintals; pollock, fifteen hundred quintals, and hake, fifteen hundred quintals. The catch of haddock shows about the same as last season. The herring catch exceeds any previous year, there having been taken about 12,500,000 lbs. The catch of lobsters also increased about 100 tons, owing to a greater number of traps having been employed than last year. The increase of the traps was caused by a cannery having been established at Grand Harbour and to keen competition by foreign buyers. The prices for lobsters realized by our fishermen were almost fabulous, and therefore one of the best seasons in this line were realized.

"The increase in the catch of cod I cannot attribute to any particular cause, but the increase in the hake catch I attribute not only to better feed in the bay, but also to the scarcity of dog-fish, giving the trawls a better chance to fish. As there was

no increase in men or plant, I know of no better cause.

"The increase in the pollock catch, I think, is entirely due to the large schools of herrings which inhabited the bay, and with reference to the latter, I firmly believe they were chased and driven inshore by the former. The principal part of fish of all kinds marketed so far, have gone to markets other than the United States, large quantities have been sold in Canada, and nearly all that have gone to the United States, have gone in bond for export from there.

"Quite an agitation is in progress here among herring curers to determine upon a method of preventing such an enormous quantity of fresh herring going to the United States, there to be cured. This practice takes labour from our people and fills the market with raw material, which we should have for the cured project, or rather, helps the American to supply the southern markets, in competition

against us.

"Not a single violation of the spawning ground regulations has come under my notice. There have been several cases of the throwing of fish offal outside of the proper grounds, all of which I have reported to you. There are also complaints relative to netters leaving their gear, &c., in the waters during the day time. This practice is injurious to the fisheries, and in my opinion should be prevented."

Overseer W. B. McLaughlin, in charge of the spawning grounds at Southern Head, Grand Manan, in his annual report states, that the herring fisheries at South Grand Manan have arrived at the normal condition they were in at the beginning of the present century, and all this he attributes to the thorough protection of the spawning grounds. He says: "At the beginning of this century, herring weer so plentiful at Grand Harbour that the pollock drove them ashore in such quantities, and their decay on the beach contaminated the air for weeks. At that time vessels from all parts of the Bay of Fundy and the New England States gathered at Grand Manan

for herring, and an inordinate greed, with slovenly and wasteful habits of fishing, soon drove the herring from Grand Harbour and vicinity, and Seal Cove became the resort of the fishing fleet, which, in those early days, numbered several hundred sail. The grounds were so overfished that in the early thirties the gradual failure of the herring fishery began, and the government of New Brunswick, for the preservation of the spawning grounds, passed an act limiting each vessel and boat to a few fathoms of net, the use of which would make it impossible for vessels to overfish the grounds. But unfortunately, boats were allowed the same quantity of nets that vessels were allowed, and numbers of men would unite, hire a vessel, and attach a small fleet of boats, thereby violating the intention of the law. This led to seizures and litigation, and in many cases to mob fights between the officers and fishermen, till finally the act was repealed, and the spawning grounds were left to the mercy of selfish men, who gathered on these grounds in great numbers, and so destructive was their work to the grounds that in the late forties, herring were slowly but surely disappearing from the waters of Charlotte County. In 1848 and 1849, the fishing fleet did not average five barrels to a vessel during the season, and the britt or sardine herring had entirely disappeared from these waters. About the year 1850 I drew up a petition to the government of New Brunswick, asking for an annual close time at the spawning grounds at the Southern Head of Grand Manan, to which I got several hundred signatures. This petition, with the report of Mr. Perley in 1852, brought the close time of three months in each year into force, which is from the 15th day of July to 15th day of October. As fishing vessels resorted to Grand Manan from Bay of Fundy and New England ports, considerable

trouble was found in enforcing the law. " An officer and 4 men from a ship of the Royal Navy in Halifax, assisted in protecting the grounds till 1854, when the war with Russia caused the withdrawal of this assistance. The New Brunswick government also became indifferent, and the grounds were left to themselves till about 1862, when Messsrs. Stevens and Helms, with a sail boat, arrived to protect the grounds. Those men were much surprised at the reception accorded them. Poachers fired at them, one of their boats was burned, and another taken off and sunk in deep water. They seized much property, imposed many fines on evil-doers, but nothing seemed to discourage the poachers. and they carried on their illegal work up to the time of confederation. I was then given control with a boat's crew, and found the spawning ground limits badly defined, and extended off shore only one mile. This allowed vessels on dark nights to slip over the line and poach. With considerable difficulty I got the limits defined and extended off shore three miles. After seizing, confiscating and destroying considerable property, the pouchers gave up their business, and the increase of herring in these waters since then is simply marvellous. The waters of Three Islands, Long Pond Bay and Grand Harbour have become well stocked with herring again, and the cod and pollock have returned to their old haunts. Herring fishermen are now able to procure all the herring they want, without disturbing the Southern Head spawning grounds. This fact makes protecting the Southern Head grounds easy, also the presence of the cruiser "Curlew," which often passes over the grounds, and is always within easy call of the local officer. The local officer living on the grounds simplifies the protection very much and knows a poacher at sight. These spawning grounds are now in excellent condition, and one of the finest breeding places on the coast of North America. I would suggest that lobster fishing be allowed on these grounds, only from March 1st to June 1st, as I am well satisfied that lobster fishing taints the waters and keeps the herring off shore. March, April and May are months that herring rarely visit the inshore grounds, and therefore are the proper months for lobster fishing on these

Guardian Conrad, the officer in charge of the border lakes from St. Croix, N.B., running northwards, states in his report that an increase is quite noticeable in the fish frequenting the lakes and streams of his district. An increased number of sportsmen visit the waters, and are well pleased at the sport obtained. The men

who formerly poached there are still in the vicinity ready to engage in the business again at the first opportunity. Very few attempts were made at poaching this season, and those only by the residents of the United States side of the border.

His business of lumbering and farming compels my constant cruising on the lakes inland in my steam launch and thereby compelling a strict observance of

the law.

I have the honour to be, sir,
Your obedient servant,

JOHN H. PRATT,

Inspector of Fisheries.

DISTRICT No 2.

REPORT ON THE FISHERIES OF DISTRICT No. 2, COMPRISING THE COUNTIES OF RESTIGOUCHE, GLOUCESTER, NORTHUMBERLAND, KENT, WESTMORLAND AND ALBERT, FOR THE YEAR 1896, BY INSPECTOR R. A. CHAPMAN.

Moncton, 2nd January, 1897.

Honourable L. H. DAVIES,
Minister of Marine and Fisheries,
Ottawa.

Sir,—I have the honour to submit my report on the fisheries of District No. 2, comprising the counties of Restigouche, Gloucester, Northumberland, Kent, Westmorland and Albert, in the province of New Brunswick, for 1896, with extracts from the reports of the local fishery officers, though many of them are not very full or explicit, also tabulated statements giving the product and value by districts and counties, together with a return of the capital employed in the prosecution of the fisheries. The returns show an increase in the aggregation over last year of \$224,984, exceeding somewhat the estimate in my preleminary report; the gross values of fish taken for past seven years while I have had charge of this district are:

For	1890	\$1 445 194 89
66	1891	2 075 392 47
6.5	1892	2 147 782 60
66	1893 1894	2,792,269 20
66	1895	2,940,185 00
66	1896	3.399 992 50

The quantities of the four largest yielding kinds of fish for the first and last of these years are:—

	1890.	1896.
Salmon, lbs	1,016,197	2.360.735
Herring, brls	57,110	220,405
Cod, cwt		99,050
Smelt, lbs	3,778,952	

Mackerel fresh in ice have also increased from 45,520 lbs. in 1890, to 698,975 lbs. in 1896, and this while the catch in other parts of the maritime provinces has remained nearly stationary, yet there is not the least doubt that the fisheries of the gulf counties are capable of expansion in many ways without at all endangering the supply if proper care and protection are given during the several spawning seasons. I will now briefly remark upon the principal kinds of fish caught.

SALMON.

The increase this year was largest in the rivers and estuaries, yet all the streams were full of salmon and grilse, on their way to the spawning grounds, last fall, which points to the continuance of improvement, which has been so marked for past few years.

HERRING

Were exceedingly abundant last spring all along our coasts, and the nets were so loaded with them in many places that they could not be taken care of; nearly every season large quantities of spawn are driven ashore at several points amounting in the aggregate to hundreds of tons which are carted ashore for manure.

MACKEREL.

The quantity taken and shipped in ice exceeds that of last year, while very few are now salted; in many parts of the gulf these fish were plentiful but would not take bait, those caught were of fine size and quality.

LOBSTERS.

There is quite a large falling off in the pack this year which is certainly caused by overfishing, the high prices obtained keep many at work that would otherwise abandon this business.

COD.

A better class of vessels and boats are producing an increase in the catch of this staple fish, and yet this fishery is capable of great expansion.

SMELTS

Show a very considerable increase over last year's enormous catch, and this fall the streams are full of them, showing that the large quantities taken and sold are not diminishing the supply, in fact this can only be a small percentage of what is consumed by other fish for food.

BASS.

The catch is slightly inferior to that of 1895, owing to this fish not having struck in until the time allowed for fishing in September on the Miramichi had nearly expired.

ALEWIVES

Were very plantiful on their usual grounds and taken in large quantities.

OYSTERS.

Less were raked in Bay du Vin than the year before, principally owing to rough weather; at Buctouche and Cocagne where the best oysters are found more were taken than during the previous season.

SHAD.

That fine fish not being protected during its spawning season is becoming scarcer each year in the Bay of Fundy. The only possible way to restore this fishery to what it was years ago, when some two or three hundred large boats were profitably engaged in it, is to allow no fishing anywhere until after the 20th June, by which time they will have ascended the rivers and spawned. My predecessor, Mr. Venning, reported on this, and I have each year and at the several conferences at Ottawa pressed the importance of this matter, but while the facts I state were undisputed, nothing has ever been done to remedy the evil.

SYNOPSIS OF FISHERY OVERSEERS' REPORTS.

RESTIGOUCHE COUNTY.

Overseer Verge reported a very large increase in the catch of salmon which is

the principal fish in that district.

Overseer McLean says salmon fishing on the whole was never better, the catch being about 70 per cent better than last year. Herring very plentiful; regulations were observed.

GLOUCESTER COUNTY.

Overseer Sweeney reports an increase in salmon and not much difference in other kinds of fish.

Overseer Jas. D. Theriault reports salmon largely in excess of last year; lobster pack considerably less and fish small, due to over fishing.

Overseer Xavier D. Albert reports a phenomenal increase in catch of salmon at

Caraquet Island; other fishing generally good.

Overseer Arcade Landry says fishing generally is a little better than last year.

Overseer Adolphe Aché reports fishing generally fair; lobster fishing overdone.

Overseer Olivier Robichaud reports a very large increase in his district of nearly all kinds of fish, especially in herring, cod and gaspereau.

NORTHUMBERLAND COUNTY.

Overseer Ferdinand Robichaud says a much larger quantity of salmon and smelts were taken. Bass arrived too late for September fishing, consequently

very few were caught.

Overseer Williston reports a largely increased catch of salmon and smelts, but less of lobsters and also of oysters, owing largely to rough weather. He says the streams were full of salmon this fall and that the smelts that leave such an immense amount of dollars among all classes have put in a royal appearance again this winter. They were large and fat and brought good prices. He also reports regulations well observed.

Overseer Abbott reports nearly double the catch of salmon in 1896 over 1895,

also a very large catch of smelts and frost fish.

Overseers Hogan and Boyce both report an increase in the catch of salmon, and that the north-west and south-west branches of the Miramichi River and their tributaries (the great building grounds of these fish) were full of salmon and grilse last fall.

KENT COUNTY.

The overseers report a decrease in pack of lobsters, except at Cocagne, where more fishing was done; a larger eatch of mackerel of very fine size and quality; herring and gaspereaux abundant; smelts a little in advance of last year, and a larger quantity of oysters of fine quality.

WESTMORLAND COUNTY.

Overseers report about 100,000 cans less lobsters packed than last year, herring exceedingly plentiful, and smelts in the aggregate better than in 1895.

ALBERT COUNTY.

The fisheries of this county since the failure of the shad alluded to elsewhere are not important.

I have the honour to be, sir, Your obedient servant,

R. A. CHAPMAN, Inspector of Fisheries.

DISTRICT No. 3.

REPORT OF THE FISHERIES OF DISTRICT No. 3, OF NEW BRUNSWICK, COMPRISING THE COUNTIES OF VICTORIA, CARLETON, YORK, SUNBURY, QUEEN'S, KING'S AND ST. JOHN, FOR THE YEAR 1896, BY INSPECTOR H. S. MILES.

OROMOCTO, SUNBURY Co., 2nd January, 1897.

The Honourable L. H. DAVIES,
Minister of Marine and Fisheries.
Ottawa.

SIR,—I have the honour to submit my fourth annual report on the fisheries of District No. 3, comprising the counties of St. John River, in the province of New Brunswick, with extracts from reports by overseers and wardens, also tabulated statements giving the product and value of the fishery industry, and the number of men and amount of capital employed. The returns show an increase in nearly all kinds of fish for which no special cause can be assigned. The figures are:—

	1030	 190,739 2	_
Increase in	1896	\$ 30,792 9	5

SALMON.

There was an increase of 50 per cent in the catch of this fish in St. John Co., the average weight being about fourteen pounds per fish. For twenty years there have not been so many taken in a single year. Grilse, weighing from four to six pounds, were also often seen, which no doubt was the result of the placing of the fry in the rivers.

LOBSTERS

Show a considerable increase. They were fished during the winter in the deep water off shore by men and vessels that had formerly been engaged in the herring fishery. More than half the catch was shipped to the United States, where remunerative prices were obtained.

ALEWIVES.

In the spring an unusualy large supply of these fish were taken for food and bait. The Nova Scotia fishermen are quite dependent on the supply obtained in St. John for this purpose. For fishing with trawls in the Bay of Fundy and on the eastern and southern sides of Nova Scotia, not less than 3,000 barrels were shipped fresh to Halifax, Yarmouth, Digby, &c. All the salted alewives were shipped to Boston and other American cities.

SHAD

Are being overfished, and unless immediate action is taken to protect them for a few years there is imminent danger of their almost complete destruction. No fish sells more readily for cash than shad, and during the entire season not only are they overfished in the various rivers, but in St. John harbour, the nets are long and deep, and so thickly set as to render the passage of many into the rivers exceedingly difficult.

TROUT.

The quantity of trout caught is exceedingly difficult to estimate. There is a great abundance of them in the lakes and brooks, and the strict enforcement of the law prevents them being overfished.

HAKE, COD AND HADDOCK.

The catch of these fish was somewhat better than usual, owing to more men being engaged in fishing them. As a result of the low wages offered by coasting vessels, many stayed at home and fished.

HERRING

Were not less abundant than other years, but owing to the fact that in the early season prices were low not many prepared to fish for them, so there were fewer taken and better prices prevailed than was expected.

SARDINES

Were very plentiful, but the demand for them was limited, and the greater part of the eatch was sold and packed for bait to be used for lobster fishing this winter.

SYNOPSIS OF FISHERY OFFICERS' REPORTS.

ST. JOHN COUNTY.

Overseer O'Brien reports a very successful year's work. Salmon fishing was better than for years—herring were abundant both spring and fall. A considerable quantity of lobsters were taken in the winter and netted, the fishermen getting better prices than usual. The demand for this fish in Boston cannot be supplied. From Beaver Harbour to the head of the Bay of Fundy was throughout the whole season literally fenced with traps, and consequently lobsters were greatly overfished, as shown in the diminution in size and weight of the individual fish in localities which have been fished continously for several years. The catch of cod is much above the average. Halibut found a ready market at home or was shipped fresh in ice. The catch of pollock and hake was about an average with other years. There were plenty of them, but as this fishery is more difficult and the prices less than those received for other fish, few engaged in the business. Trout are still plentiful in our lakes and streams, and as none are exported no great danger of exhaustion exists, but every year increases the number of sportsmen intent on their capture.

KING'S COUNTY.

Overseer W. H. Heine says: Alewives, the first fish to make their appearance in the spring, were this season late in coming and very scarce. Some sections in which large quantities have been caught were not visited by them at all. No reason for their non-appearance is apparent. The shad fishery which comes on during the latter part of May was vigorously prosecuted, and consequently the catch was larger than for years before. This was especially so on the upper waters of the Kennebecasis, which has to be constantly patrolled to enforce the weekly close time. The catch of pickerel is becoming more important each year, and this industry is developing into a remunerative business for a considerable number of persons. These fish are all shipped fresh in ice to the New York and Boston markets where they command good prices. Salmon of late years have been scarce, but on account of the ten thousand fry which by order of the department were placed in these waters, grilse were frequently seen, and in a few years the Kennebecasis with its rapids and shady pools will be an excellent stream for sportsmen.

 $11a - 8\frac{1}{2}$

The close seasons were fairly well observed. Four nets were seized and sold, the ownership could not be proven, so no prosecutions resulted. All the mills on the Kennebecasis, except Waddel's mill, at Reed's Point, are burning or otherwise taking care of their saw-dust and mill rubbish. Considerable difficulty is experienced in getting fishermen to give a complete and accurate account of their catch, some giving less than a fifth of the amount known to have been taken by them.

Overseer W. L. Belyea, Browns Flats, King's County, says: In the waters of the St. John River, flowing through the parishes of Kingston, Greenwich and Westfield, the amount of fish caught is about the same as last year, except a slight increase in the catch of sturgeon, owing to the open season commencing two weeks earlier than the previous year. About 50 per cent of the fish caught in this district have been exported, 40 per cent sold in Canada, and 10 per cent used for home consumption. No abuses exist to his knowledge. The several close seasons have been well observed, no violations came under his notice. The Saw-dust Act has been fairly well

observed by the mill owners. No fish-ways in his district.

Overseer J. H. Gray, Springfield, King's County, says bass fishing has not been so remunerative as in years past, very few have been taken, and the fishing material largely reduced, yet the fishermen are determined to keep a vigilant eye over the industry, and will be prepared to take advantage of its benefits when the opportunity offers. The fish taken were exported to the United States. Shad fishing is carried on upon a limited scale in a general way, the nets used for salmon are brought into requisition for this purpose. Alewives were plentiful, but the catch reported is about the same as last year; two-thirds of them consumed at home, and the balance sold in St. John for exportation. Eels are very destructive and annoying to the fishermen; a bounty for capturing eels might have beneficial results. Pickerel seem to be on the increase, about double the amount being caught this year to that of last, and are exported to the States. He does not know of any abuses existing except the saw-dust from a few small mills. Close seasons have been observed by the fishermen. He has kept vigilant watch and patrolled the district each month for the purpose of enforcing the law. No illegal fishing has come to his notice. There are no fish-ways in his district.

Overseer J. W. Nowlan, Smiths Creek, King's County, says everything in his district pertaining to the fisheries is legally done, and that trout are plentiful and that the close seasons have been well observed. No fish-ways in his district.

Overseer A. C. Warden, Johnston, Queen's County, says about the same number of men were engaged and the same amount of fishing gear used as last year, but there was a slight decrease in the catch of alewives compared with last year, the prices being so low caused a less effort put forth to catch them. There was a slight increase in the catch of shad, caused, no doubt, by the favourable winds at the mouth of the Washademoak, and an increase in the catch of pickerel caused by more winter fishing being carried on. About 80 per cent of the fish caught were sold in the St. John market, and the balance used at home. The several close seasons have been strictly observed. No illegal fishing came to his knowledge. The Saw-dust Act was not observed. No fish-ways in his district.

Overseer M. Case, Wickham, Queen's County, says the catch of shad and salmon for this year is about the same as last, and a decrease in the catch of alewives; the catch of pickerel increased largely within the last year owing to the high prices obtained for this fish in the American markets. Eels are over abundant and a great nuisance to the salmon fishermen, but not many of them were taken on account of the absence of the men who formerly engaged in this fishery. All the fish caught in this district were used for home consumption or sold in St. John, except pickerel, which were exported to the United States. The close seasons were well observed.

Saw-dust was allowed to escape in the rivers.

SUNBURY COUNTY (NOTE BY INSPECTOR.)

Geo. W. Hoben, formerly overseer for Sunbury, died in July. He was one of the oldest fishery officers in New Brunswick, having held the office, so he has informed me, for 24 years. After his death I gave his district my personal supervision.

Salmon, shad and alewives were abundant; pickerel fishing is growing to be quite an industry. They are shipped to Boston, very few being used for food in this county. No abuses existed, and the close seasons well observed. The fish-way, in Smith's dam, on North Oromocto River is useless. No fish will enter it. I caught and placed in it with a dip-net last spring eleven strong active alewives, and put it up so that they could only escape by going through it, turned the water on and waited twenty minutes, expecting the fish in that time to pass up and escape into the river above. I shut the water off and went down into the compartments, travelling towards the entrance. I found no fish until I arrived at the last compartment, the same one I placed the fish in. I found them all dead, seven of them were mangled so that their entrails protruded, the other four dead but not torn. I am of the opinion that no twenty salmon could live to go through it. It may be a good fish-pass in some rivers, but in the North

Oromocto River it is a complete failure. Overseer Robt. Orr, York County, says: "During the year I devoted all my time to watching the rivers and lakes within my district. As a whole I did not observe much illegal fishing. There was some drifting done on the River St. John in tidal water, but early in the season Mr. E. H. Allen, of this city, interested himself so much in the matter that you thought well to place a special guardian on this water, and as a consequence no more illegal work was brought to my notice there. The South-west Miramichi being the principal salmon stream in my district, I devoted all my spare time there. Owing to the riparian or club owners withdrawing their men from the river, I had to exercise special diligence in preventing spearing, which is the most common form of poaching on this river. In the early spring I was notified by Mr. T. G. Loggie, the manager for the club owners, that owing to the bad guarding of the river below Boiestown, he would not place any men on the river.* For the last two years the river for 65 miles below Boiestown to tide water has been completely choked with nets, and very few fish were allowed to ascend into my district. It was through this reason alone that the anglers lost heart and abandoned the work. This season the river over this 65 miles was choked with nets as usual, and large quantities of salmon were barrelled up for winter consumption. During the open season scarcely any large salmon were observed on the upper part of the river, but as the nets were cleared away large numbers of salmon were allowed to ascend. If the fishery laws could be amended so that the settlers on this river could have three days fishing in the week, and allow the fish to ascend the other three, it would be a tremendous boon. It would satisfy the anglers, fairly satisfy the settlers, and the increased number of fish allowed to get on the spawning beds in my district would be the means of replenishing the fisheries at the mouth of the Miramichi. As mentioned above, owing to the few men in the government employ to guard the river, there was some spearing carried on. We found and seized eight sets of spearing apparatus, but no one could be found to say that they were the owners, and they are still in my possession. There should be at least six men on this stretch (51 miles long) keeping it clean. On the whole there was no increase of salmon and shad in my district, and pickerel were very plentiful, and perch, trout and gaspereau fair."

T. G. Loggie, Secretary of the S. W. Miramichi Angling Club, reports as

follows:-

"During the past season the anglers, as my correspondence to your department will show, placed no guardians on the river to act in concert with those employed by your department. Our reasons for not so doing were explained at the time, and our action was fully borne out by the wholesale destruction of the river below that part over which Inspector Miles holds jurisdiction. Looking at the matter in a calm, unprejudiced manner, one is forced to the conclusion that in a very short time, yea, in a very few years, salmon angling on the S. W. Miramichi will be a thing of the past. A glance at the diaries of the guardians as well as the reports of the

^{*} This 65 miles of river spoken of below Boiestown is in Northumberland county, consequently comes under R. A. Chapman's control.—H. S. Miles.

overseer and the inspector himself, will show you that during the months of June, July and August of this year, scarcely a full grown salmon could be seen over the whole district from Boiestown to the Forks, a distance of 50 miles. Over the entire distance are innumerable pools tempered by the cold waters from the many streams that flow and mingle with the waters of the Miramichi, forming resting places for the salmon that ascend to spawn. As matters are now, it is next to an impossibility for a salmon to escape the barriers that are placed on the river below Boiestown to seek his capture. After escaping the net work of fisheries in the Miramichi Bay and river he ascends into non-tidal water, where the river narrows in many places so that nets can be strung from bank to bank, and has to run the gauntlet of nets, so set, for 65 miles more, until he reaches Boiestown. If he ever reaches there, he is scarred, torn and battered. The record of the past season over this 65 mile stretch has been most disastrous. In some instances, I am told, smaller mesh nets were set above the ones of large mesh to capture the grilse passing through. The result is not surprising. I will give you one instance, the sale of 100 grilse in this city by a settler on this stretch, the result of one night's fishing.

"The anglers do not claim that the settlers should be debarred from a moderate use of their fronts. The late law prohibiting net fishing for salmon in non-tidal waters sought to wipe out the riparian rghts enjoyed for over a century, and the result was that the settler redoubled his energies to evade the law. What is required is a law establishing the settlers' rights and make regulations whereby these valuable fisheries may be restored and protected. Let the nets be removed three days and three nights in the week, to allow the fish to ascend, and have guardians and efficient overseers appointed or continued to carry this out. Prolong the close season to the 20th June, to allow the first run to get up. Then the anglers would again take up the protection and the river would be restored

to its once famous state."

Wm. Blake, Esq., special fishery statistician for Carleton county, reports a total disregard of all fishery laws and regulations on the St. John River, Maduxnakeag and Miramichi Rivers, flowing through that county. Not only had net fishing been carried on in those non-tidal waters, but dynamite as well had been used. For several years the poachers have had it all their own way owing to there having been no fishery officers in the county, where not less than four are required throughout the greater portion of the fishing season. Of the catch it was impossible to get anything like a correct account, as no doubt three-fourths of the fish taken were illegally caught. The fish-way which was lately built on the Maduxnakeag River at Woodstock is considered a success. It is looked after by William McDonald. The inhabitants living along the St. John River complained bitterly about the sawdust in the river. In the village of Hartland he was told that it was impossible to get a bucket full of water from the river which did not contain saw-dust, whereby the fisheries were undoubtedly injured to a very considerable extent.

Overseer T. D. Ryan, Victoria County, says there has been no increase in the catch of fish in his district this season, but rather a decrease, not on account of the scarcity of fish, but rather from a less vigorous prosecution of the fisheries. He must ascribe this to the hard times in this locality during the fishing season this year. All fish caught in this district are used for home consumption. There are abuses existing in his district, and the only means to prevent them that he can suggest is by special guardians. The close seasons have been well observed. Two or three cases of illegal fishing came to his knowledge, but some time after it happened, and he could not in any case find the names of the parties. The Saw-dust Act is not observed in his district, nor does he consider that there is any injury done to the

fisheries by the saw-dust.

Overseer Joseph Martin, Baker Lake, Victoria County, says that trout, &c., were abundant in the rivers and lakes, that some illegal fishing was carried on. He seized a canoe and spearing outfit, and got the names of violators. The case is now in the hands of the inspector, which will be prosecuted later on. The close seasons are well observed. No fish-ways in his district.

GENERAL REMARKS.

SUNBURY COUNTY.

Before closing my report, I cannot too strongly urge upon the department the great advantage (to the general fisheries of St. John, King's, Queen's, Sunbury and York) that would result from the removal of the dams across the Oromocto River at Hartt's and Tracy's mills, which effectually debars fish of all kinds from one of the best spawning beds in the province, viz., North Oromocto Lake, which each year salmon, shad and alewives vainly try to reach, and in the end are forced to return to the low lying meadows along the river bank, where alewives deposit their spawn, where in a few hours the receding freshet has left them to dry up and blow away. Two fish-ways were built on this river, one at Hartt's mills and one at Tracy's mills, but neither of them was sufficient for the requirements. Two years ago the freshet removed the Tracy fish-way, mill and part of the dam, and there remains now only the obstruction at Hartt's mills to be overcome.

The lobster fishery in St. John County is a source of great wealth to the deep sea fishermen, who threaten this industry with speedy extinction, and some protective measure should be at once adopted. Shad also are overfished to an alarming extent, and unless the catch of them is prohibited for a few years on some good spawning grounds—say Darling's Lake, or other suitable place, there will soon be none to catch. Their scarcity has resulted in excessive fishing in the past, and now when the supply is failing, this fishing is redoubled with renewed energy, which

threatens their hasty extinction.

I am, sir, your obedient servant,
H. S. MILES.

NEW BRUNSWICK-DISTRICT No. 1.

RETURN Showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries; Quantity and Value of Fishing Material; Kinds and Quantities of Fish, and the Total Number of Men employed, &c., in District No. 1. Province of New Brunswick, for the Year 1896.

	Number.		- 2			
	Cod, ewt.		75(1000	: इंडेड	950 9973
*9	Alewives, brl		: :	:	250	020
ni ,bədo	Herrings, sme boxes, lbs.		2000	000009		9767400
TO field	Herrings, fros			80000	12562000	10000 97800 4 10149 12643760 9767400
rjeq,	Herrings, pic		570 255	:	8600 519 205	0149
mber.	Seal skins, nu		4 :	:	· · · · · · · · · · · · · · · · · · ·	14
sdI ,f	Clams, shelled		1500	2300	4000	00820
sql 'sur	Scallops, in ca		0000	:		0000
,95i ni ,	Salmon, fresh			:	320	
'sur	Sardines, in c		95500	10000	000000	05500
ter ps.	Value.	¢€	2511 880	4151	14100 376 1008	19990 405500
FISHING MATERIAL. Weirs. Smelt Lobst Nets. Trap	Number.		3400 2188	466	14100 758 2229	93111
nelt ets.	Value.	6 5	0g	:	80	7.67
ZZ	Zumber.		:10	:	. : : 0 2	1 65
eirs.	Value.	%		8500	. , 4 -	97600 53
	Number.		30	32	45.74	296
702	Value.	¥÷	2475 358	:	3500 350 745	7498
Net	Esthoms.		4950 1073	:	12500 1204 3697	P6786
	Men.		154	75	478 148 260	886
Boats.	.anlaV	≎ €	1945	2150	55250 4800 10048	80099 1988
	Number.		118	72	267 105 282	10.4%
	Men.		890	63	8228:	176
essels.	Value.	¥.	4550	300	8900 7400 3000	98780
A	Tonnage.		204	10	323 231 143	53 1010
	Number.		10		::::20	650
Districts.		harlotte County.	means to Letang	hen	1 1 1 1 1	Totals
	Xumber.		o Le	2 7	#####################################	
	Vessels. Nets. Weirs. Smelt Lobstor ans, in ice, in ic	Menner. Tonnage. Value. Men. Value. Value	Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Walue. Seal skins, number. Seal skins, number. Seal skins, number. Walue. Seal skins, number. Cod, cwt. Cod,	10000 1397 10000 100000 10000 10000 10000 10000 10000 10000 10000 1000	Vessels	

RETURN showing the Quantity and Value of Fish, &c.-New Brunswick-Com.

	Number.		- 22		20 01 - 00	
	Total Value.	ets.	86,850 48° 116,602 28		1,745 00 578,023 50 99,743 00 120,898 50	1,108,701 76
Fish Products.	Fish Guano, tons. Fish used as bait, bris. Frish used as manure, bris.	`	90 450 270	45 44 3025	1450 1800 395 20 1744 147	135 5049 5562 1,108,701
rsh Pr	Coarse and mixed fish, brls.	,	20		35	52
	Fish Oils, galls.		2 5970 4200	1230	60000 15330 30000 5120 3707	35557
	Lobsters, cans.		24432			114432
	Lobsters, tons.		361	14		938
	Sardines, brls.		3000 40450 100	28345	3120 7564	3479 10
	Clams, canned, lbs.		24000			34000 85
	Pickerel, lbs.		_ : :_		3500 2500	3 2500 2
	Smelte, lbs.		9 3500			9 11278
'IsH.	Squid, brls. Flounders, lbs.	-	$\begin{array}{c c} 10 & 4400 \\ 167 & 229 \end{array}$	2600	500 181 77 500	135 772
KINDS OF FISH.	Frost fish.				1000	0 5200
Kini	Trout, lbs.		4 G		3000	3 1325(
	Clams, unshelled,		2074	000 320		000 258
	Halibut, lbs.		25000 8000	195000	81000 35400 210	$45511\ 15823\ 15192\ 15899149640\ 195000\ 2583\ 13250\ 2500\ 995\ 7729\ 11273\ 2500\ 24000\ 82479\ 100\ 938\ 114432\ 35557$
	Haddock, ewt.		$\begin{array}{ccc} 910 & 20 \\ 1194 & 8 \end{array}$	2000	450 81 9700 38 1145	5399 146
	Hake, sounds, lbs.		5387		4000 4600 30 30	12192 1
	Наке, сwt.		5387 1406		3500 5500 30	15823
		480 3357	1000	5020 7000 26254	45511	
	Zumber.	Charlotte County.	1 Lepreaux to Letang	4 St. George (inland)	5 St. Stephen	Totals

RECAPITULATION

Of the Yield and Value of the Fisheries in District No. 1, New Brunswick, for the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.
Kinds of Fish. Salmon, fresh, in ice Lbs. Sardines, do Brls. do in oil Cans. Scallops, fresh Brls. do canned Cans. Clams, unshelled Brls. do shelled Lbs. do canned Cans. Cans. Cans. Cans. Cans. Cans. Cans. Cans. Cans. Cans. Herring, pickled Brls. do frozen or fresh Lbs. do smoked Cret. Alewives, pickled Brls. Seal skins No. Pollock, dried Cwt. Hake do " do sounds Lbs. Haddock, dried Cwt. Finnan haddies, smoked Lbs. Halibut, fresh Lbs. Halibut, fresh Tons. do canned Cans. Frout, fresh Lbs. Fom cod or fresh fish Sequid Brls. Flounders Lbs. F	Quantity. 350 82,479 405,500 100 10,000 2,583 27,800 24,000 9,273 250 4 45,511 15,823 15,192 15,399 195,000 149,640 938 114,432 13,250 2,500 935 7,729 11,273 2,500 35,557 1,35 5,049 5,562	\$ cts. 0 20 2 00 0 05 2 50 0 15 1 25 0 10 0 10 4 50 0 02 0 02 4 50 4 00 2 50 0 50 3 50 0 10 0 10 80 00 0 14 0 10 0 05 4 00 0 07 0 05 0 05 0 45 25 00 1 50 0 50	Value. 70 00 164,958 00 20,275 00 250 00 1,500 00 3,228 75 2,780 00 252,875 20 195,348 00 41,728 50 1,000 00 12 00 113,777 50 39,557 50 7,596 00 53,896 50 19,500 00 14,964 00 75,040 00 16,020 48 1,325 00 125 00 3,740 00 541 03 563 65 125 00 16,000 65 3,375 00 7,573 50 2,781 00
Coarse and mixed fish		2 00	1,108,701 76 968,203 50

Number and Value of Vessels, Boats, Nets, Weirs, &c., engaged in the Fisheries of District No. 1, New Brunswick, for the Year 1896.

\$ cc 53 vessels (tonnage 1,010) 25,750 1,045 boats 80,922 23,424 fathoms of gill-nets 7,428 269 seines for weirs (fathoms, 7,300) 14,919 267 weirs 97,600 53 smelt nets 97,600 53 smelt nets 97,600 50 dip-nets 2,500 23,141 lobster traps 19,290 7 lobster canneries 19,290 7 lobster canneries 14,200 9 ice houses 116,750 750 smoke and fishhouses 157,144 231 piers and wharfs 157,144 231 piers and wharfs 50,155 12 sailing and steam smacks 5,950 2 sardine canneries 3,000 1 fish-curing factory 3,500 1 do guano do 5,000	1,045 boats. 3,424 fathoms of gill-nets. 269 seines for weirs (fathoms, 7,300). 267 weirs. 53 smelt nets. 914 trawls. 3,000 hand-lines. 500 dip-nets.					
1 fish-curing factory	1,045 boats. 3,424 fathoms of gill-nets. 269 seines for weirs (fathoms, 7,300). 267 weirs. 53 smelt nets. 914 trawls. 3,000 hand-lines. 500 dip-nets. 3,141 lobster traps. 7 lobster canneries. 30 fish-presses. 9 ice houses. 750 smoke and fishhouses. 231 piers and wharfs.	25,750 80,922 7,428 14,919 97,600 427 7,000 3,000 2,500 14,200 3,000 16,750 157,144 50,155	000 000 000 000 000 000 000 000 000			
80 weir-scows 4.000	1 fish-euring factory	3,500 5,000	() ()			

NEW BRUNSWICK-

Return showing the Number, Tonnage and Value of Vessels and Boats engaged in Fish, and the Total Number of Men employed, &c., in District

		F	rishi	NG VE	SSELS	S ANI	Воат	S.	Fisi	HING M	ATER	IALS.
	Districts,		Ve	ssels.			Boats.		Gill-	Nets.	Traj	p-Nets
TAULIDEI.	DISTRICTS.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.
	Restigouche County.											
1 2	Above Dalhousie					30 164			7215 17800			
	Totals					194						
	Values											
	Gloucester County.						-					
1	Petit Rocher, &c					196						
3	Bathurst, &c	i	24	400	3	$\frac{362}{200}$						30
1	Upper Caraquet	11	128	4550	34		5700					30
0	Caraquet		1150	43200 15050			9250		26200			
7	Shippegan Mainland Shippegan Island	46			85 170							- • •
3	Miscou, &c	3	35	800	9	84	2700					
7	Pokemouche	1 3	11 34	700								
	Totals		$\frac{54}{2275}$	$\frac{600}{93300}$					$\frac{25000}{196080}$			
ı	Values			1				2990	190080	88879	1	30
1	Northumberland County. Neguac, &c	2	24	700	8	146	2920	246	45000	61000		
	Bay du Vin, &c,,	2	60							125000		
3	Chatham, &c	4	0.2		19		3000	160	22000	19000		
±	North-west Miramichi River					60 70	600 750					
1	Totals	8		4100	33					$\frac{3000}{210500}$	***	
	Values \$									210000		
	Kent County.											
1	Harcourt, &c					5	50	6				
2	Carleton					47	2000	100	3600			
1	St. Louis	3	36	950	10	$\begin{vmatrix} 60 \\ 205 \end{vmatrix}$						
5	Richibucto, &c			990		350						
6	Cocagne					165						
	Totals	3	36	950	10	832	28350	1756	70900	17300		
	Values\$											
1	Westmorland County.					240	=000					
2	Shediac, &cBotsford			* . * . *		210 107	7000 4000		$20000 \\ 12000$			
5	Westmorland and Sackville.					45						
ŧ.	Dorchester and vicinity					30	1500	60	7500	2500		
	Totals					992	14900	711	48500	20100		
	Values\$											
1	Albert County					3	90	6	600	350		
	Values										• • • •	
	Grand totals	208	2489	98350	729	3491	129635	6965	513595	361640	1	300
		-										

DISTRICT No. 2.

the Fisheries, Quantity and Value of Fishing Material, Kinds and Quantities of No. 2, Province of New Brunswick, for the Year 1896.

	Fishi	NG MA	TERIAL	s.					Kı	NDS OF	FISH.				
Number.	Nets.	Number.	Value.	Number.	Value.	Salmon, fresh, in ice, lbs.	Salmon, pre- served, in cans, lbs.	Herring, salted, brls.	Herring, fresh or frozen.	Herring, smoked, lbs.	Mackerel, salted, brls.	Mack'el, fresh or preserved, in cans, lbs.	Lobsters, preserved, in cans, lbs.	Lobsters, alive or fresh, tons.	Cod, dried, cwt.
200 - 20 - 220	$\begin{array}{c} 12000 \\ 1000 \\ \hline 13000 \end{array}$					118000 208400 326400	,	2000 2000	30000			4000 4000	32500 32500	$\begin{array}{c} 1\frac{1}{3} \\ 5 \\ \hline 6\frac{1}{3} \end{array}$	40
						65280		9000	600			480	4550	475	180
25 7 25 10 34 14 20 85 72	1200 350 650 350 1150 450 600 2975 2170			50 16 20 15 12	200 180 100 2000 500 320 290 150 120	14000 	3560	20500 37075 2400 1500 24000 2650 4150 9000 2350 21000	25000	30000	$ \begin{array}{c} 10 \\ 137 \\ 170 \\ 60 \\ 400 \\ 134 \\ \dots \\ 25 \\ 50 \\ 10 \end{array} $	47925 9500 1500 9800 12000 1000 20250 1500	$\begin{array}{c} 67550 \\ 196050 \\ 280000 \\ 21400 \\ 39200 \end{array}$	4 3 2 2	2070 23990 3700 3600 29800 7160 10600 1500 750 13000
292	9895			256	3860	1283915 		$\frac{124625}{560812}$	75000 ——————————————————————————————————	43200	996	105475	944175 132184		96170
163 184 306	6460 7360 15000	100 200 50	500 1000 250			174000 206610 166100 75000 65000		3000 3000 200	1000	20000 40000		70000	61500 105000		500 100 50
653	28820	350	1750			686710		6200	1000	60000		72000	166500	6	650
						137342	. 75	27900	20	.1200		8640	23310	450	2925
69 90 305 218 104 786	2500 2700 12200 7630 2200 27230			10 6 2	100 80	18500		1320 7000 11500 6000 7200 33020 148590	50000	10000 20000 10000 5000 45000	100 75 40 30	505000	$ \begin{array}{r} 30000 \\ 158000 \\ 145000 \\ 52160 \end{array} $	3 5 4 2 16	160 300 580 100 800 1940
175 78	2200					5000		28000 24000	15000 10000	40000	100 75	5000 5000	234000 393600	50 10	100
27	650			4	30	2250		2500				· · · · ·		10	
280	10850		. ,	. 4				54560 245520		1600			627600 87864	i	900
						9100			5000		2490	1500		2	50
						100	-							150	225
2231	89795		1750	309		2349675						698975	2241375	1294	99050
2201	00100	***************************************	110	300	102	469935	11000	,	4520			ļ	313793		

Return showing the Number, Tonnage and Value of Vessels and Boats engaged in and the Total Number of Men employed, &c., in District No. 2,

						KIND	s of F	ISH.			
Number.	Districts.	Cod, tongues and sounds, brls.	Hake, dried, ewt.	Hake, sounds,	Haddock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Bass, lbs.	Alewives, brls.	Oysters, brls.
	Restigouche County.										
1 2	Above Dalhousie					0500		500800 32000 532800			
	Values\$					870		26640)		
23456789	Gloucester County. Petit Rocher, &c. Bathurst, &c. Grande Anse. Upper Caraquet. Caraquet. Shippegan Mainland. Shippegan Island. Miscou, &c. Pokemouche. Tracadie Totals.	2 27 5	800 $ 500 $ $ 600 $ $ 320 $ $ 200 $ $ 170 $ $ 1200$	700 1670 200 200 250	200 500 110 200 152 400	3400	1400 43000 5640 3000 1800 1500 800	70000 82120 38600 144000 175500	750 1500 500 1600 780 1800		
	Values \$	340	10225	1570	5467	1917	5714	38699	1493	13360	508
2 3 4	Northumberland County. Neguac, &c. Bay du Vin, &c. Chatham, &c. North-west Miramichi River. South-west Miramichi River.		160			1600 1000 1800 25000 5000	5000	700000 884000 1500000	$\begin{array}{c} 21700 \\ 50000 \\ 114000 \end{array}$	200 300 350 1150 1250	7000
	Totals		160			34400	7000	3086500	248800	3250	740
2	Values\$ Kent County. Harcourt, &c. Carleton St. Louis		400		150	7600 3000 6500		154325 160000 360000	900 50000 14000	13000	
4 5	Richibucto, &c. Buctouche, &c. Cocagne. Totals.	23	900 500	3550 400 3950	260	1300 1200 3000		$ \begin{array}{r} 1040000 \\ 950000 \\ 440500 \\ \hline 2950500 \end{array} $	$ \begin{array}{r} 2400 \\ 1600 \\ 2800 \\ \hline 71700 \end{array} $	2800 800 200 5200	
-	Values\$	230	4000	1975	1435	2260	184	147525	7170	20800	2292
2	Dorchester and vicinity					6000 2000 1500 1000 10500		620000 210000 121000 951000	3000 3000 5000 	800 100 200 	100
-	Values										
1	Albert County					1050		47550		4400	
1	Values					500		$\frac{4000}{200}$	300		
	Grand totals	57	5960		1079	100370	65080				1.4700
-	Values		14900					8298790	34673	12915	

the Fisheries, Quantity and Value of Fishing Material, Kinds and Quantities of Fish, Province of New Brunswick, for the Year 1896—Concluded.

		т.	7	Tran	-				T7	T)				1
		F	ZINDS (of Fisi	1.				rish	Produ	CTS.			
Clams, brls.	Eels, brls.	Shad, brls.	Squid, brls.	Sardines, cans.	Flounders, lbs.	Tom-cod or frost fish, lbs.	Coarse and mixed fish, brls.	Fish oils, galls.	Fish used as bait, brls.	Fish used as manure, brls.	Fish guano, tons.	Seal skins, No.	TOTAL VALUE.	Number.
					$\frac{2700}{2700}$	17300 9000 26300			800 800	$ \begin{array}{r} 1500 \\ 1400 \\ \hline 2900 \end{array} $			51,055 00 61,120 00]
		••••			135	1315	,		1200	1450	.,		112,175 00	
900 150 400 3500 1050 400 30 130	10 150 25 15 30 5 36 120 391	10	6 25 420 200 10 661		1500 1050 3500		430	325 2300 19500 2150 5500 2000 200 250 32675	1100 10620 2500 1500 3500 3440 4300 4000 1250 900	38520 300 400 1000 1340 2500			184,754 00	
13120	3910	100	2644		303	43534	1100	13070	49665	30580		13	1,657,172 50	
20	25 25 8 200 10 268	500 400 700 150 1750		72000	40000	175000 1309000 1475000	800	400	6000	150 2950	500	4	187,332 00 192,420 00 42,500 00 25,725 00	
40	2680	17500		3600	2250	73750	1600	160	9000	1475	12500	4	552,766 00	
$\begin{array}{c} 20 \\ 300 \\ 950 \\ \hline 1270 \end{array}$	20 30 300 500 150 780 1780	65 60 45			9000 9000		500 100	200 300 380 200 200 1280	1500 2000 4800 3000 3000 14300	300 2800 3700 6800			1,150 00 63,091 60 117,890 00 201,436 00 128,500 00 91,377 40	2 22 (6)
2540	17800	1700			900	7570	41200	512	21450	3400			603,445 00	
100 25 5 	100 15 25 	450 756 1200				10000 1000 4000 15000	200 50 150		13000 17000 2000 32000	300 500 800			225,090 00 204,004 00 31,185 00 8,620 00	1 64 65
260	1400	12000				750	1400	80	48000	400		1	468,899 00	
15	10	200				30000	40	100						
30	100	2000				1500	80	40					5,535 00	
7995	2589	3330	661	72000	71750	2568370	22690	34655	86210	74610	500	17		
15990	25890	33300	2644	3600	3588	128419	45380	13862	129315	37305	12500	17	3,399,992 50	

Of the Yield and Value of the Fisheries in District No. 2, New Brunswick, for the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.
		S ets.	\$ cts
do in cans Brls. Herring	$\begin{array}{c} 11,060\\ 220,405\\ 226,000\\ 228,200\\ 1,426\\ 698,975\\ 2,241,375\\ 1294\\ 99,050\\ 57\\ 5,960\\ 7,090\\ 1,972\\ 160,370\\ \end{array}$	0 15 4 50 0 02 0 02 14 00 0 12 0 14 75 00 4 50 10 00 2 50 0 50 0 50	1,659 00 991,822 56 4,520 00 4,564 00 19,964 00 83,877 00 313,792 56 9,700 00 445,725 00 14,900 00 3,545 00 10,037 00
Hallout	65,980 8,298,790 346,730 12,915 14,700 7,995 2,589 3,330 661	0 10 0 05 0 10 4 00 4 00 2 00 10 00 10 00 4 00	6,598 0 414,939 5 34,673 0 51,660 0 58,800 0 15,990 0 25,890 0 33,300 0 2,644 0
ardines Cans. I'ounders Lbs. 'rost fish 's 'oarse fish Brls. 'ish, as bait Brls. do manure " do guano Tons. eal skins No.	72,000 71,750 2,568,370 22,690 34,655 86,210 74,610 500	0 05 0 05 0 05 2 00 0 40 1 59 0 50 25 00 1 00	3,600 0 3,587 5 128,418 5 45,380 0 13,862 0 129,315 0 37,305 0 12,500 0

Number and Value of Vessels, Boats, Nets, Traps, &c., engaged in the Fisheries in District No. 2, New Brunswick, in the Year 1896.

Material.	Value.	Total.
	\$ ets.	s ets
* 208 vessels (aggregate tonnage, 2,489).	98,350 00	
3,491 boats 13,595 fathoms of nets	129,635 00 361,640 00	
2,231 smelt nets	89,795 00	
350 bass nets	1,750 00	
1 mackerel trap-net	3,000 00	
73,420 lobster traps	141,720 00	684,170 00
191 lobster factories, (4068 hands employed)	98,300 00	
_		240,020 00
10 general canneries	13,000 00	,
110 freezers and ice houses. 641 fish houses and smoke houses.	61,500 00	
31 piers and wharfs	35,060 00 8,500 00	
15 steamers and smacks	14,250 00	
303 trawls	4,620 00	
850 smelt shanties	10,500 00	
-		147,430 00
Total value		1,071,620 00

NEW BRUNSWICK-DISTRICT No. 3.

RETURN showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries; Quantity and Value of Fishing Materials; Kinds and Quantities of Fish, and the Total Number of Men employed, &c., in District No. 3, Province of New Brunswick, for the Year 189..

		Number.		-01 00 4 TO		ar-805H	
	re-q°	Herring, smol		200000	200,000		200000
H.	TO I	Herring, fresh sol, ibs.		0000009	000009		000009
F Fisi	d, brls.	Herring, salte		200	006	560	1664
Kinds of Fish.	sol ,sai	bbsH nsnniA		000009	000009		600000 1664
	,95i ni	Salmon, fresh		58800 40400 75000 50400 1400	226000	18000 26240 1000 3300 3000	287540
	i, brls.	Salmon, salted			:	16	16
		Value.	#	450 450 400 960	2300	: : : : : :	2300
	Seines.	Fathoms.		420 450 375 480	30 1725 2300	, , , , , , , , , , , , , , , , , , ,	1725 2300
Tr.	202	Zumber.		120		* * * * * * * * * * * * * * * * * * * *	30
TERIA	irs.	Value.	₩	9100	10540		10540
IG MA	Weirs.	Number.		26	8		30
FISHING MATERIAL.	ets.	.enlaV	₩	23310 32000 30375 30000 9900	125580	4000 18854 4800 1400 270 800	155704
	Gill Nets.	Fathoms.		31080 40800 40000 114400	166280	19400 24186 9000 5200 520 1600	226186
		Men.		400 100 100 82 60	692	326 384 140 200 80 160	1982
BOATS.	Boats.	Value,	60	\$000 2500 2500 800 1200	15000	6080 8400 800 1950 600	33330 1982
FISHING VESSELS AND BOATS.		Number.		200 200 30 Te	346	152 210 80 98 98 40 100	1026
ESSE		Men.			64	00	52
NG V	Vessels.	Value.	60	420 5200 700 620	247 6940	120	2000
FISH	Ves	Tonnage.		1 21 2 35 1 31 	12 247	11	13 259
		Number.		:	12		-
	Dysmoroms	DISTRICTS	St. John County	1St. John Harbour 2 Dipper Harbour 3 Pisarinco 4 Musquash 5 Martin's Head and St. Martin's.	Totals	6 King's. 7 Queen's. 8 Sunbury 9 York. 11 Victoria.	Grand Totals
		Number,		200472 20728		10.0876 10.0870 10.0870	

RETURN showing the Quantity and Value of Fish, &c.-New Brunswick-Continued.

,	Number,	cts. 000 000 000 000 000 000 000 000 000 0	18	000 000 000 000 000 000 000 000 000 00	1
	TOTAL VALUE.	\$ ct 149,045 28,419 25,923 15,980 11,090	230,457 (23,211 2 23,211 2 2,152 0 2,152 0 4,546 0	
FISH PRODUCTS.	Fish used as Bait, brls.	3000	3500		
PRO	Fish Oils, galls.	:8 :::	09	300	
	Coarse and mixed fish, brls.	: : : : :	* * * * * * * * * * * * * * * * * * * *	210 24 24 130	13
	Pickerel, lbs.			10000 90000 24000 4000 1800	1000
	Sardines, brls.	1500	1500		1 0
	Shad, brls.	1000	1025	336 720 200 200 30	10000
	Fels, brls.	100	100	26 42 8 8 : + :	00
	Caviare, brls.		:	61	1
SH.	Alewives, bris.	18000	18400	280 1100 1620 20	01490
KINDS OF FISH.	Bass, Ibs.	•		1665	1002
Kind	Trout, lbs.	*		3600 3820 3600 8000 14000 30000	GOKOO
	Pollock, cwt.	160	435		125
	Haddock, cwt.	1920 1920 325 150	3245		3945
	Наке, dried, сwt.	400 2000 350 125 775	3650	400	4050
	Cod, tongues and sounds, lbs.		67		6
1	fresh, tons.	80 113 80 80	554		554
	Lobsters, alive or	100 100 75 80 60	. 290		065 (
	Sturgeon, lbs.		:	25000	25000
	Number. Districts.	St. John Harbour 2 Dipper Harbour 3 Pisarinco 4 Musquash 5 Martin's Head and St. Martin's	Totals	6 King's 7 Queen's 8 Sunbury 9 York 10 Carleton	Grand Totals

Of the Yield and Value of the Fisheries in District No. 3, New Brunswick, for the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.
	1	\$ ets.	\$ cts.
Salmon, salted Brls.	16	16 00	256 00
do freshLbs.	287,540	0 20	57,508 00
Herring, salted Brls.	1,664	4 50	7,488 00
do frozen Lbs.	600,000	0 02	12,000 00
do smoked	200,000	0.02	4,000 00
Finnan haddies	600,000	.0 041	27,000 00
Sturgeon	25,000	0 07	1,750 00
obsters Tons	290	75 00	21,750 00
Cod Cwt.	554	4 50	2,493 00
l'ongues and sounds Brls.	. 2	10 00	20 00
Hake Cwt.	4,050	2 50	10,125 00
Haddock "	3,245	3 50	11,357 50
Pollock	435	2 50	1,087 50
Crout Lbs.	62,520	0 10	6,252 00
Bass 11	1,665	0 08	133 20
Alewives Brls.	21,420	4 00	85,680 00
Caviare Lbs.	3,800	0 171	665 00
Eels Brls.	180	10 00	1,800 00
Shad	2,401	10 00	24,010 00
Sardines	1,500	1 50	2,250 00
Pickerel Lbs.	129,800	0 05	6,490 00
Coarse fish Barls	410	3 00	1,230 00
Fish oil	360	0 40	144 00
Fish for bait Brls.	3,500	1 50	5,250 00
Total value of fish			290,739 20

Number and Value of Vessels, Boats, Nets, Weirs, &c., engaged in the Fisheries of District No. 3, New Brunswick.

Material.	Value.	Total.
	\$ cts.	\$ cts.
13 vessels (259 tons). 1,026 boats. 26,186 fathoms nets 30 weirs 30 seines (1,725 fathoms).	7,060 00 33,330 00 155,704 00 10,540 00 2,300 00	000 004 00
9,060 lobster traps. 26 ice houses. 45 smoke and fish houses 6 steamers and smacks. 115 trawls.	6,795 00 5,900 00 40,000 00 600 00 2,775 00 19,800 00	208,934 00
68 wharfs and piers	19,800 00	75,870 00
Total value of material	-	284,804 00

RECAPITULATION showing the Number and Value of Vessels and Boats engaged in the Fisheries, Fishing Materials, and the Kinds and Quantities of Fish, as well as the Number of Men Employed in the Fishing Industry of the Province of New Brunswick, for the Year 1896.

		Number.		10100400	7 110 113 113	****	
	ted, bris.	Herring, salt		2000 124625 6200 33020 5 1560	204	10149 14	11060 232218
г Fізн.	ni bəvrə	Salmon, pres		10560		:	
KINDS OF FISH.	,95i ni ,d	Salmon, fres		326400 1283915 686710 37000 13250 2400	226000 18000 26240 10000 33000 3000	350	2637565
	ed, brls.	Salmon, salt			19	:	16
		Value.	€		5300	14919	17219
	Seines	Fathoms.			1725	7300	9025
		Number.			00 : : : : : : : : : : : : : : : : : :	267	297
RIAL.	Weirs.	Value.	€€		10540	97600	108140
(ATE)		Number.			08 : : : : : :	267	202
FISHING MATERIAL	Nets.	Value.	⊕	13000 9895 28820 27230 10850		427	90222
Fisi	Smelt-Nets.	Number.		220 292 653 786 280		53	2284
	ets.	.enlaV	€	25015 88375 210500 17300 20100 350	125580 4000 18854 4800 1400 270 800	7428	524772
	Gill-Nets.	Fathoms.		25015 196080 172500 70900 48500 600	166280 19400 24186 9000 5200 1600	23424	763205
		Mem.		358 2993 1141 1756 711	692 326 384 140 200 80 160	1288	10235
SOATS.	Boats.	Value.	%	3450 65225 17620 28350 14900	15000 6080 8400 800 1950 600	80922	243887
AND I		Number.		194 1406 664 832 392 3	346 152 210 210 80 80 98 40 100	1045	5562
SSELS		Men.		 33 10 	3: 3:	254	1035
SHING VESSELS AND BOATS	Vessels.	Value.	6	93300 4100 950	6940	25750	131160 1035
Fisi	Ves	Tonnage.		2275 178 36	247	1010	3758
		Number.		197	12	53	274
	DISTRICTS.	, Гитрет.		1 Restigouche 2 Gloucester. 3 Northumberland. 5 Westmoreland. 6 Albert.	7 St. John. 8 King's 9 Queen's 10 Sunbury 11 York. 12 Carleton. 13 Victoria	14 Charlotte	Totals

RECAPITULATION Showing the Kinds, Quantities and Values of Fish, &c.-New Brunswick-Continued.

	Number.	-0164700	7×00112121	Ť	
	Bass, Ibs.	14930 248800 71700 110000	1665		348395
	Smelts, lbs.	532800 773990 3086500 951000 4000		11273	8310063
	Halibut, Ibs.	57140 7000 1840		13250 149640	215620
	Trout, lbs.	8700 19170 3440) 22600 10500 5000	3800 3820 3800 8000 14000 30000	13250	176140
	Pollock, cwt.		435	45511	45946
	Finnan Haddies, Ibs.		000009	195000	795000 45946 176140 215620
	Haddock, cwt.	1562	3245	15399	20616
ï	Hake, sounds, lbs.	3950		15192	22282
KINDS OF FISH.	Hake, dried, cwt.	1600 1600 1100 1100	3650 400	15823	25833
DS (Cod, tongues, and sounds, brls.	· # : 61 · ·	67	:	59
Kin	Cod, dried, cnrt.	40 96170 650 1940 200 50	450	9273	108877
	Lobsters, slive or fresh, tons.	100 KB 10	230	988	13573
	Lobsters, preserved, in cans, lbs.	32500 944175 166500 470690 627600		114432	2355807
	Mackerel, fresh or preserved, in cans, Ibs.	4000 105475 72000 505000 12500		:	698975
	Mackerel, salted, brls.	996 2555 175		:	1426
	Herring, smoked,	43200 60000 45000 80000	200000	9767400	10195600
	Herring, fresh or frozen, lbs.	300000 15000 50000 65000	0000009	12643760	13469760
	Mumber.	1 Restigouche	7 [St. John 8 King's 9 Chuen's 10 Sunbury 11 York 12 Carleton 13 Victoria	14 Charlotte	Totals

RECAPITULATION showing the Kinds, Quantities and Values of Fish, &c.-New Brunswick-Concluded.

١	Mumber.		H084700	131110987	14	
	TOTAL VALUE.	& cts.	112,175 00 1,657,172 50 552,746 00 603,445 00 468,899 00 5,535 00	230,457 00 15,885 00 23,211 20 9,020 00 5,152 00 4,546 00	‡1,108,701 76	4,799,433 46
	Fish guano, tons.		2000		135	635
cts.	Fish used as manure, bris.		2900 61160 2950 6800 800		5562	80172
Fish Products.	Fish used as bait,		800 33110 6000 14300 32000	9200	5049	94759
FIS	Seal skins, No.		<u> </u>	000	4	21
	Fish oils, galls.		32675 100 1280 200 100	3000	35557	70572
,	Coarse and mixed fish, bris.		550 800 20600 700 40	210 20 20 24 24 130	522	23152
	Tom cod or frost fish,		26300 870670 1475000 151400 15000 30000		2500	2570870
	Flounders, lbs.		2700 6050 45000 18000		7729	79479
	Fickerel, Ibs.			10000 90000 24000 4000 1800	2500	132300
KINDS OF FISH.	Sardines.	Cans.	72000	*1500	405500	*83979
O SQUI	Squid, brls.		991		935	1596
X	Shad, bris.		1750 1750 170 200	1025 336 720 70 200 20 30	:	5731
	Helv, brls.		391 268 1780 140 10	100 26 42 8 8	:	2769
	Clains, bris.		6560 20 1270 130 15	,	‡2583	10578
	Oysters, brls.		1270 7400 5730 300		:	14700
	Alevives, brls.		3340 3250 5200 1100	18400 280 1100 1620 20	250	34585
	Number. Districts.		Restigouche	7 St. John 8 King's 9 Queen's 10 Sunbury 11 York. 12 Carleton 13 Victoria.	14 Charlotte	Totals

*Barrels.
Include here ‡27,800 lbs shelled clams valued at \$2,780
24,000 cans
reserved 2,400
scallops, fresh and 1,700

RECAPITULATION of the Number and Value of Vessels, Boats, Nets, &c., engaged in the Fisheries of the whole Province of New Brunswick with approximate value of other fishing material, 1896.

Articles.	Value,	Total.
	8	8
274 fishing vessels (3,758 tons) (1,035 men) 5,562 do boats (10,235 men) 763,205 fathoms of gill-nets. 297 seines (9,025 fathoms) 297 weirs. 2,284 snelt-nets. 350 b.ass-nets 500 dip-nets. 1 trap-net (mackerel). 3,000 hand lines 1,332 trawls.	131,160 243,887 524,772 17,219 108,140 90,222 1,750 2,500 3,000 3,000 14,395	
198 lobster canneries (4,208 men)	112,500 167,805	1,140,045
12 general canneries. 1 fish curing factory. 850 smelt shanties. 30 fish presses. 145 freezers or ice-houses. 1,436 smoke and fish houses. 33 steamers and smacks. 80 scows. 50 pile drivers. 1 guano factory. 330 fishing piers and wharfs.	16,000 3,500 10,500 3,000 84,150 232,204 20,800 4,000 500 5,000 78,455	280,305 458,109
Total	********	1,878,459

OF the Yield and Value of the Fisheries of the whole Province of New Brunswick for the year 1896.

do smoked	$\begin{array}{c} 2,637,565\\ 11,060\\ 16\\ 232,218\\ 13,469,760\\ 10,195,600\\ &1,426\\ 698,975\\ 2,355,807\\ 1,357\frac{1}{3}\\ 108,877\\ 59\\ 25,833\\ \end{array}$	\$ ets 0 20 0 15 16 00 4 50 0 02 0 02 0 02 14 00 0 12 0 14 4 50 10 00	\$ cts. 527,513 00 1,659 00 256 00 1,044,981 00 269,395 20 203,912 00 19,964 00 83,877 00 329,812 98 106,490 00 489,946 50 590 00	\$ 529,428 1,518,288 103,841 436,302
do preserved, in cans " do salted Brls. Herring, salted " Do fresh Des Des Des Des Des Des Des Des Des Des	$11,060 \\ 16$ $232,218$ $13,469,760$ $10,195,600$ $1,426 \\ 698,975$ $2,355,807 \\ 1,357\frac{1}{8}$ $108,877 \\ 59$	0 15 16 00 4 50 0 02 0 02 14 00 0 12 0 14 4 50	1,659 00 256 00 1,044,981 00 269,395 20 203,912 00 19,964 00 83,877 00 329.812 98 106,490 00 489,946 50	1,518,288
Herring, salted	232,218 13,469,760 10,195,600 1,426 698,975 2,355,807 1,357\frac{1}{3} 108,877 59	4 50 0 02 0 02 0 02 14 00 0 12 0 14 4 50	1,044,981 00 269,395 20 203,912 00 19,964 00 83,877 00 329,812 98 106,490 00 489,946 50	1,518,288
do fresh Lbs. 1 do smoked " Mackerel, salted Brls. do fresh Lbs. Lobster, preserved, in cans " do fresh or alive Tons. Cod, dried Cwt.	$13,469,760 \\ 10,195,600 \\ 1,426 \\ 698,975 \\ 2,355,807 \\ 1,357\frac{1}{3} \\ 108,877 \\ 59$	0 02 0 02 14 00 0 12 0 14 4 50	269,395 20 203,912 00 19,964 00 83,877 00 329,812 98 106,490 00 489,946 50	103,841
do fresh	698,975 2,355,807 1,357 1 108,877 59	0 12 0 14	83,877 00 329.812 98 106,490 00 489,946 50	103,841
do fresh or alive	1,357 ± 108,877 59	4 50	106,490 00	
Cod, dried	108,877 59	4 50	489,946 50	436,302
do tongues and sounds Brls.				
Hake, driedCwt.		2 50	64,582 50	490,536
do sounds Lbs. Haddock, dried Cwt.	22,282	0 50	72,156 00	75,723
do smoked, finnan haddies Lbs.	795,000	1	46,500 60	118,056
Pollack, dried. Cwt. Halibut, fresh Lbs. Trout.	45,946 215,620	2 50 0 10 0 10		114,865 21,562
Smelts "Bass "	176,140 8,310,063 348,395	0 05 0 10		17,614 415,503 34,806
Alewives, salted Brls. Shad, salted " Eels, salted "	34,585 $5,731$ $2,769$	4 00 10 00 10 00		138,340 57,310 27,690
Squid	1,596 83,979	4 00	167,208 00	6,384
do preserved in oil	477,500	0 05	23,875 00	191,083
Pickerel Lbs. Flounders " Frost fish or Tom cods "	132,300 79,479 2,570,870	0 05 0 05 0 05		$\begin{array}{c} 6,615 \\ 4,128 \\ 128,543 \end{array}$
Oysters Brls.	14,700 10,578	4 00	19,218 75	58,800
		1	5,180 00	24,398
Scallops, fresh or canned	25,000 3,800	0 07		1,750
Coarse and mixed fish Brls.				2,415 46,714
Seal skins	23,152 21			29
Fish oils Galls.	70,572			30,006
do as bait Brls. do as manure " do guano. Tons.	94,759 80,172	i 		142,138 4 40,086 6
do guano	635			15,875

APPENDIX No. 5.

PRINCE EDWARD ISLAND.

REPORT ON THE FISHERIES OF PRINCE EDWARD ISLAND FOR 1896, BY INSPECTOR OF FISHERIES S. F. PERRY.

TIGNISH, P.E.I., 8th February, 1897.

Honourable L. H. DAVIES, Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to submit my report on the fisheries of this province for the season just closed.

The fisheries generally along the coast of Prince Edward Island, with the exception of herring, may be considered below the average of other years.

HERRING

appeared generally the first week of May, and catches were good all along the north side, but they were scarce on the south side. Altogether enough of these fish were secured for home consumption, the most of them being used for lobster and mackerel bait, and about 5 per cent for food.

LOBSTERS.

The work of fishing and canning commenced early in May. The quantity canned shows a decrease as compared with other years, notwithstanding that some new factories were added. More boats, traps and men were employed than in former years, which goes to show that this once great industry is falling off.

The close season was fairly well observed from the West Point round by the

North Cape to Malpeque on the north side.

At lot 7, on the west shore, some of the fishermen and packers fished and packed till the latter end of September. The guardians kept patrolling along the shore until they succeeded in prosecuting and convicting four of these parties. There was also some illicit fishing and packing along Egmont Bay and other points on the south side, which in some cases is done at night and in the woods. It is a matter of great importance that the regulations should be strictly enforced. The general impression among packers and fishermen is that short season and most rigid enforcement of the regulations are the only means of protecting this industry.

COD.

This fishery is not carried on to any large extent by our fishermen. At the time that the cod make their appearance the fishermen generally are employed fishing lobster, and about the first week in July, when the mackerel appear, they turn their attention to that fishing. The boats which are used for lobster and mackerel fishing are of a small size and not fit to follow the cod on the banks. There is no doubt cod fishing would be remunerative if properly prosecuted. Over one hundred large boats come from Gloucester County, N.B., every year and fish off the North Cape, about ten miles off the land. They report doing well. They also eatch

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a large quantity of fall herring which are equal in quality to Labrader herring. These large boats take refuge in stormy weather in Tignish harbour, and often close the mouth of the harbour so that our small mackerel boats cannot get out for the morning fishing which is a drawback to our own people.

MACKEREL.

These fish were caught first about the first week of July in small quantities but a very large size, and kept scarce all the season; in fact no big catches were reported and the mackerel fishing season ended as it commenced with very poor results. The general impression among fishermen is that no mackerel nets, nor seines or traps should be allowed, and no other mode of fishing mackerel should be allowed only hook and line. They claim that the bait that is used to catch them tends to keep the fish on the ground.

The failure of mackerel fishing is severely felt by our fishermen and the mer-

chants who supply them.

OYSTERS.

Oyster fishing commenced on the 15th September and was actively carried on as long as the weather permitted. At the outset several fishermen used drags, but the department at once forbade them. Thefi shery staff had a good deal of trouble in stopping them, indeed the officers deserve a good deal of credit for the way in which they behaved, and after punishing several of them the season closed with no drags in use. People who pretend to know say that drags and spring fishing are injurious; they also believe that fishing oysters should not begin till the first of October. The catch in Richmond Bay is falling off from year to year, and unless the regulations are strictly enforced this industry will ultimately be destroyed.

SMELTS.

Smelt fishing has been prosecuted vigorously this season and the catch a fair average one. No illicit fishing is reported.

TROUT

are caught in small quantity for home consumption; the rivers are well guarded and no poaching is reported so far. Dunk River is well protected by guardians and all seems to be satisfactory.

The yield of the fisheries of this province is disposed off as follows:-

Salmon.—95 per cent for home consumption. exported to the United States. Herring .- All used for home consumption for lobster and mackerel bait. Lobster.—35 per cent exported to Europe. to United States. 66 45 66 66 20 used in Canada. 66 50 for home use. Cod.— 66 sold in Canada. 50 66 Hake.— 70 home consumption. 66 30 sold in Canada. 66 exported to United States. Smelts.— 95 66 home consumption. 5 66 sold in Canada. Oyster.— 90 66 10 home consumption. I have the honour to be,

Your obedient servant,
S. F. PERRY,
Inspector of Fisheries.

PRINCE EDWARD ISLAND.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials employed in the Fishery Industry, and the Kinds and Quantity of Fish and Fish Products of the Province of Prince Edward Island, for the Year 1896.

	Number.		10247067800		
	Cod, dried, cwt.		1800 1450 370 720 1000 2800 4500 725 625	14240	64080
Lobsters, preserved in cans, lbs.			73981 32064 151098 79019 61096 1120 6 46 16 275 2 44184	725391	101555
l, brls.	Mackerel, saltec		000 000 000 140 180 180	986	3104
brls.	tberring, salted,		1200 4350 650 2000 3250 3000 4800 11125 1000 700	22075	99337 13104
ni bəv	Salmon, preser		: : : : : : : : : : : : : : : : : : : :	200	12
wls.	Value.	90	1500 1140 180 80 280 650 45 100 100	3055	.:
Tra	Number.		00074757000	237	:
Nets.	.enlaV	₽	999	180	
Smelt	Number.		ි ක ක	C	:
	.aulaV	6€	140	140	-
Dip	Number.		2	70	_ : -
Gill-Nets.	.9nlaV	6	2100 2500 350 350 1600 2200 1000 1000	17250	:
	Esthoms.		6120 7000 1200 2700 4800 7000 6500 3000 2000	43320	:
Boats.	Men.		180 350 60 60 175 250 200 120 100	1575	
	Value.		1800 2375 400 500 3200 1600 500 800 360	12935	- <u>·</u>
	Литрег.		102 145 355 455 120 100 100 24 24	751	
	Men.			32	:
ssels.	Value,	%	20000	3800	
Ve	Tonnage.			202	:
	Number.		: : : : : : : : : : : : : : : : : : :	9	
Districts,		King's County.	Souris and Red Point. Annandale (for Dundas). Bay Fortune Bay Fortune Murray Harbour, North Murray Harbour, South. Vorell and St. Peter's Vaufrage North Lake	Totals.	Values
	Number.		SARAN MASSA		
	Vessels, Boats, Gill-Nets, Dip-Nets, Smelt-Nets, Trawls, 'In yet by the branch of the	Men. Walue. Walue.	Discrete Discrete	County C	

RETURN showing the Number, Tonnage and Value of Vessels and Boats engaged in the Fisheries, &c.—Prince, Edward Island — Continued.

	Number.	1224707-800
	Forat Value.	\$ cts. 40,637 76 55,981 68 12,156 96 39,392 66 52,642 44 73,178 74 73,178 72 116,335 28 12,767 76
TS.	Fish Guano, tons.	60 200 30 30 30 515 515
FISH PRODUCTS.	Fish used as bait, brls.	1200 3000 550 1000 2500 2500 1000 850 650 16750
Fish]	Fish Oils, galls.	2150 1725 350 350 1100 2800 3400 340 125 125 125 125
	Coarse and Mixed Fish, brls.	700
	Tom Cod or Frost Fish,	500 1000 1000 1000 3500 175
	Squid, brls.	30 10 10 10 10 10 10 10 10 10 10 10 10 10
	Eels, brls.	115 110 110 115 115 1130 1130 834
	Clama, bris.	125 60 60 75 75 75 780
SH.	Oysters, brls.	15
OF FIS	Alewives, brls.	200 100 50 350
Kinds of Fish.	Smelts, lbs.	7000 1500 500 2000 5000 111500
	Halibut, lbs.	1000 1000 1000
	Trout, ibs.	700 25000 25000 25000 1000 3000 3000 18200
	Haddock, cwt.	255
	Hake, sounds, lbs.	266.0 6000 2000 4500 320 640 725 1450 1200 5800 50 125 10 200 12095 25915
	Hake, dried, cwt.	2600 3200 3200 3200 2800 2800 2800 50 100 112095 36285
	Districts.	King's County. Souris and Red Point. Souris and Red Point. Salay Fortune Georgetown Georgetown Shurray Harbour, North. Murray Harbour, South Morell and St. Peter's Salay Fortune South Shorth Lake South South Lake South Lake Totals. Totals. Totals. Totals.
	ултрөг.	

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Material, &c.-

Fish.	brls.	Mackerel, salted,		200 200 3 200 200	: 4 : :	537	7518
OF F		Herring, fresh or frozen, lbs.		275 50000 2000		52275	503
KINDS OF	Herring, salted, brls.			1025 500 580 300 4000	88 : :	6485	28957
LANT.	Number of hands employed.			00 00 00 00 00 00 00 00 00 00 00 00 00	116	710	
	Canneries.	Value.	%	4700 4200 2100 4725 4500	3050	25675	
PLA	Can	Number.		w w 4 0 7	10 10	47	1:
LOBSTER PLANT.	ps.	Value,	No.	2350° 2750 1900° 6775 2930	4050	23087	
H	Traps.	Number.		3380 5200 4350 12925 6500		44755	:
	vls.	Value,	¥ 	350 140 180 60	: : : : :	730	:
	Trawls.	Number.		30		54	:
Fishing Materials.	Smelt- Nets.	Value.	£	575 260 75 80	80.	1110	:
	224	Number.		20 7 4	ਜ : :ਨ	388	1
	Gill-Nets. Seines.	Value.	#	1000 700 150 2000		3850	:
HING		Fathoms.		3 4000 4 750 1 200 7 1300	: : : : :	6250	:
Fis		Number.		€ 4 : H 12		15	:
		Value,	≠	2520 1000 	341	1481	:
		Fathoms.		7200 3500 	890	13540	:
22		Mem.		56.08 66.08 67.08	145 60 80 80	851	:
FISHING VESSELS AND BOATS	Boats.	.anlsV	€	3040 2000 1022 600 5200 120		14934	:
S AN		Number.		998889	34 40 40	422	:
ESSEL		Меп.		22		53	:
G V.	Vessels.	Value.	€.	52 1000		4000	:
ISHIN	Ves	Tonnage.		52		1384	:
E		Number.		:		20	:
	Districts,		Queen's County.	1 Trucadie 2 New London 3 Grapand 4 Point Prim. 5 Rustico 6 Charlottetown	(Wheatly Kiver.) (Lot 65. (Pownal) (Days and rivers)	Total	Values
		Number.		CR PORT	Wheatl 8 Lot 65. 9 Pownal 0 Bays an		

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Material, &c.—Prince Edward Island—Continued.

	Total Value.	\$ cts. 43.137 89 21.779 52 6.873 84 22.764 00 15.740 00 7.505 505 26.854 52 9.333 62 34,550 00
-•	Fish guano, tons.	200 320 200 200 723 7230
DUCT	Fish used as manure,	1000
Fish Product.	Fish used as bait, brls.	1250 900 150 1200 1200 1200 5400
Fis	Fish oils, galls.	1150 500 20 650 80
	Tom cod or frost side, lbs.	2000
	Squid, brls.	100 100 420
	Hels, brls.	150 150 150 40 35 35 345 345
	Clams, bris.	255 155 100 100 100 100 100 100 100 100 1
	Oysters, brls.	95000 350 1400 2100 50 350 4000 100 6000 38 10 10000 38 800 2000 100 4500 119100 530 11357 20055 2120 45428
	Alewives, brls.	350 50 50 100 100 530 530
FISH.	Smelte, lbs.	· · · · · · · · · · · · · · · · · · ·
OF E	Halibut, Ibs.	1000
Kinds of	Trout, lbs.	800 800 800 2255 4000 6225 6225
Kı	Haddock, ewt.	300 150 200 500 500 11155 4043
	Hake, sounds, lbs.	
	Hake, dried, cwt.	1000 10
	Cod, tongues and sounds, brls.	
	Cod, dried, cwt.	2300 1000
	Lobsters, preserved, in cans, lbs.	55876 53568 29406 120658 79200 191818 32183 562709
	Mackerel, fresh or pre- served (in cans), lbs.	5000
	Districts.	Queen's County. 1 Tracadie. 2 New London 3 Crapaud 4 Point Prim 5 Rustico. 6 Charlottetown 7 Wheatly River. 7 Wheatly River. 9 Pownal 10 Bays and rivers. Totals Values.

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantities and Value of all Fishing Materials, &c., Prince Edward Island—Continued.

-		Zumber.		128.4700 C C C C C C C C C C C C C C C C C C		
Ħ	slrd ,	Mackerel, salted		616 284 400 400 55 55 51 10 10 950 45 45 45	2686	37604
KINDS OF FISH.	Herring, fresh or fro- xen, lbs.			500	200	4
Kinds				1000	1000	10
	slid.	Herring, salted,		4225 2035 3300 1198 1556 430 1500 200 200 1000 1000 1144 11095	21173	95279
	Trawls.	Value,	#₽	200 1875 700 20 20	2805	
	T	Number.		888	105	:
Fishing Material	Smelt-Nets.	\mathbf{V} alue.	00	40 120 300 120 300 180 60 100 320 220 220	1640	
ING IN	Sine	Number,		112 12 12 12 12 12 12 12 12 12 12 12 12	22	:
Fish	Nets.	aulæV	€€	1000 550 550 550 1731 670 185 380 500 1000 1220 88 88 875 375	10089	
	Gill-Nets.	Esthoms.		2000 1131 1256 1256 1700 2000 800 1000 440 4400 215 750 215 750	29349	* * * * * * * * * * * * * * * * * * *
	Boats.	Men.		274 184 184 184 184 185 195 195 195 195 195 195 195 195 195 19	2242	:
Fishing Vessels and Boats.		.9nlaV	₩	2477 2200 840 1730 1730 1730 1500 1500 2800 2800 2800 2800 2800 2800 3840 11140 1775	27682	:
ELS ANI		Number,		53 46 46 47 48 48 48 48 48 48 48 48 48 48	968	:
VESSI	Vessels.	Men.			25	
HING		Value.	₩	5000	4250	:
Fis	Ves	Tonnage.		15 15 15 15 15 15 15 15 15 15 15 15 15 1	153	:
		Number.		::::::::::::::::::::::::::::::::::::::	9	:
	DISTRICTS.	Number.	Prince County.	1 Tignish. 2 Nail Pond 3 Frog Pond 4 Minnigash 5 Alberton 6 Narrows and Lot 11 7 Ellersly Lot 12 8 Grand River 9 Malpeque. 10 Richmond Bay 11 Koxbury Lot 6 12 Fifteen Point 13 Brae 14 West Point 15 Traveller's Rest 16 Carleton 17 Summerside. 18 Tryon	Total	Value

Note.—In No. 1, add 1 trap-net and 1 seine, \$500 each. 9, add 2 seines, \$200 each.

RETURN showing the Kinds and Quantities of Fish and Fish Products, &c., Prince Edward Island -- Continued.

	Number.	1100 470 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Total Values	** cts. 32,169 10 12,909 50 21,776 00 12,1476 00 15,514 50 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 8,032 92 15,43 96 13,671 10 13,671 10 13,671 10 20,436 96 1,100 00 1,100 00 20,436 66	376,616 06
TS.	Fish guano, tons.	400 4 400 552	5520
Fish Products.	Fish used as bait, brls.	712 712 71450 1450 200 200 600 800 125 1125 11356	20349
Fish	Fish oils, gals	1350 250 250 643 260 100 100 100 150 6 150 170 181 181 181	1285
	Tom cod or frost fish,	100	120
	Hels, brls.	30 30 30 111 10 10 10	1056
	Clame, brls.	26 20 20 20 20 20 20 20 20 20 20 20 20 20	78
	Oysters, brls.	157 1600 25540 4200 6000 375 290 3700	75368
	Alewives, brls.	10 10 10 10 10 10 10 10 10 10 10 10 10 1	40
rish.	Smelts, lbs.	18600 82000 12000 17000 17000 17000 64000 64000 222000 28600	12430
KINDS OF FISH	Hake, sounds, lbs.	400 400 11165 1165 1165 11965	982
KINI	Hake, dried, cwt.	300 35 2255 7255 7655 400	5145
	Cod, dried, cwt.	438 250 430 773 773 80 1000 210 40 40 40 206 3652	16434
	Lobster, preserved, in cans, lbs.	27128 27128 37560 10.560 57600 12912 268416 9600 9600 74064 740669	103685
	Mackerel, fresh or pre- served, in cans, lbs.	3300	1342
	Districts.	1 Tignish 2 Nail Pond 2 Nail Pond 3 Frog Pond 4 Mimingash 5 Alberton 6 Narrows and Lot 11 6 Klanslie Lot 12 6 Grand River 9 Malpeque 10 Richmond Bay 11 Rockury Lot 6 12 Fifteen Point 13 Brae 14 West Point 15 Traveller's Rest 16 Carleton 17 Summerside 18 Tryon 17 Summerside 18 Tryon	Values
	Number.	190470010000190470770 ENESANBOAHHHANLOWE	

RETURN showing the Number, Tonnage and Value of Vessels and Boats, and the Quantity and Value of all Fishing Materials, &c. -

	Nets.	Value, Xumber.	180 1110 1640	2930		eserved	Lobsters, princans, 11	725391 562709 740609	O CONTRACTOR
	Smelt-Nets.	Zumber.	388	124			Mackerel, s brls.		
		/slue.	\$ 2955 730 2805	6490	FISH,		Mackerel, f	936 500 537 11180 2686	1000
	Trawls.	Zumber.	237 54 105	396	KINDS OF FISH		Herring, sn lbs.	2000	. 6
ALS.	ets.	.sulac.	200	200	KINI	sdl, fas	Herring, fr	52275	1 1 1 0 0 4
FISHING MATERIALS	Trap-Nets.	Zumper.	:: : =	=		lted,	Herring, sa brls.	22075 6435 21173	1 00
ING M		Value,	3850	4750		eserved,	Salmon, pro	900000000000000000000000000000000000000	1 2
FISH	Seines.	Fathonis.	6250	6850	HES.	Tugs steamers and smacks	.enlaV	9 9 E	0400
	20	Xumber.	: ::	100	ISHER	stes and s	Number.	°1 : :	0
	70	Value.	\$ 17250 . 4481 10089	31820	D IN E	Piers and wharves.	Value,	14750	DAMED
	Gill-Nets.				USE		Number.		100
	CEII	Fathoms.	43320 13540 29349	86209	KTURES	Smoke and fish- houses.	Value.	⊕ :I	3
	Boats.	Men.	1575 851 2242	4668	OTHER FIXTURES USED IN FISHERIES.		Number.		2
VTS.		*antita	\$ 12935 14934 27682	55551		Freezers and ice- houses.	Number. Value,	2 140	1
FISHING VESSELS AND BOATS		Number.	751 1422 1896 2	2069 5			hands employ- ed.	1224 710 1814	100
SSELS	Vessels.	, n→M	22.22	98	LOBSTER PLANT.		Value.	\$ 10535 23087 53810	-
ING VE		Value.	\$ 3800 4000 4250	12050		Traps.	Number.	67655 4 44755 2 106695 5	1
FISH		Tonnage.	202 138 153	493	Loss	ries.	souls.	\$ 38260 (25675 4 45188 10	
		Number.	ව 10 0	17		Canneries.	Zumber.	47 2 3 4 4 5 5 4 4 5 5 4 4 5 5 6 4 4 5 6 6 6 6	1 7
	Districts.		I King's 2 Queen's 3 Prince			Districts.		1 King's. 2 Queen's 3 Prince	

RECAPITULATION showing the Quantity and Value of Fish, &c.—Prince Edward Island, for the Year 1896.—Continued.

	Number.	100	
	TOTAL VALUE.	\$ cts. 370,519 24 228,990 51 376,616 06	976,125 81
	Fish guano, tons.	515 723 552	790
)UCIIS.	Fish used as manure, brls.	125	125 1790
FISH PRODUCTS.	Fish used as bait, brls.	16750 3600 13566	33916
Fisi	Fish-oils, galls.	13150 2400 3213	18763
	fish, brls.	700	200
	Squid, brls. Ooarse and mixed	105.	151
	.sdl ,dsh	3500 200 100	
	Oysters, brls. Tom-cod or frost	15 3 11357 18842	30214 3800
	Hels, bris.	139 345 176	099
	Clams, brls.	260 275 26	561
	Alewives or gaspe- reau, brls.	350 530 10	890
FISH	Smelts, lbs.	11500 119109 248600	79200
CINDS OF FISH	Trout, lbs.	18200	24425 679200
K	Halibut, lbs,	11000	2100
	Hake, sounds, lbs.	25915 1000 40 1100 1965	27920
	Hake, dried, cwt.	12095 235 1715	14045
	Haddock, dried, ewt.	11155	1230
	Cod, tongues and sounds, bris.	: = :	
	Cod, dried, cwt.	14240 4925 3652	22817
	Districts,	ing's. ween's. rince.	Totals
	Number.	32 Ki	

Showing Yield and Value of the Fisheries in the Province of Prince Edward Island, during the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.	Total Value
		\$ cts.	\$ cts.	\$ cts
Salmon, preserved in cans. Lbs. Herring, salted. Brls. do fresh. Lbs. do smoked. "	500 49,683 53,275 200	0 15 4 50 0 01 0 02	223,573 50 532 75 4 00	75 00 224,110 25
Mackerel, fresh " do salted Brls.	11,680 4,159	$\begin{smallmatrix}0&12\\14&00\end{smallmatrix}$	1,401 60 58,226 00	59,627 60
Lobsters Lbs. Cod, dried. Cwt. do tongues and sounds. Brls.	2,028,709 22,817 1	0 14 4 50 10 00	102,676 50 10 00	284,019 26
Haddock, dried	$\begin{array}{c c} 1,230 \\ 14,045 \\ 27,920 \end{array}$) 3 50 3 00 0 50	42,135 00 13,960 00	102,686 50 4,305 00
Halibut. " Frout " Smelts " Alewives Brls. Clams " Oysters " Tom cod or frost fish Lbs. Squid Brls. Coarse and mixed fish " Fish ols Galls. Fish as bait Brls. Fish as manure " Fish guano Tons.	2,100 24,425 679,200 890 561 660 30,214 3,800 151 700 18,763 33,916 125 1,790	0 10 0 10 0 05 4 00 3 00 6 00 4 00 2 00 0 05 4 00 2 00 0 40 1 50 0 50		56,095 00 210 00 2,442 50 33,960 00 1,683 00 3,560 00 120,856 00 190 00 604 00 1,400 00 7,505 00 50,874 00 62 50 17,900 00
Total for 1896				976,125 81 976,836 64

Showing the Number and Value of Vessels, Boats, Nets, &c., engaged in the Fisheries of the Province of Prince Edward Island, season 1896.

Number.	Articles.	Value.	Total Value
		\$	\$
86,209 18 1	Vessels, 493 tons (86 men) Boats (4,668 men) Fathoms gill-nets Seines, 6,850 fathoms Trap net. Trawls Smelt nets	$12,050 \\ 55,551 \\ 31,820 \\ 4,750 \\ 500 \\ 6,490 \\ 2,930$	- 114,091
174 $219,105$	Canneries (3,748 hands)	109,123 117,432	226,555
2 5 26 2	Ice-houses. Smoke-houses and fish-houses. Piers and wharfs Steamers and smacks.	140 155 24,650 6,400	31,345
	Total value	* * * * * * . * . * . * . * . * . * . *	371,99

APPENDIX No. 6.

QUEBEC.

REPORT ON THE 'JULF OF ST. LAWRENCE FISHERIES, FOR THE YEAR 1896, BY COMMANDER WM. WAKEHAM, INCLUDING SYNOPSES OF THE LOCAL OVERSEERS' REPORTS OF THE WHOLE PROVINCE.

GASPE BASIN, 2nd January, 1897.

The Honourable

L. H. DAVIES,

Minister of Marine and Fisheries.

SIR,—I beg to present the report on the fisheries of the Gulf Division, together with synopses of the reports of the various local fishery officers, and the statistics of the catch for the season of 1896.

These returns show a considerable gain in the total value of the fisheries, calculated at the usual rates, as compared with the previous season. As a matter of fact, however, though there was in many branches of the fishery an increase in the catch, the prices actually obtained were lower than usual, and exporters have not done as well as in previous years when the actual volume of the fishery was much smaller.

The completed statistics show that in 1896 the value of the catch, computed at the same rates as in 1895, was \$1,674,586.03—while in 1895 we had a yield estimated at \$1,518,829.43—being a gain of \$155,756.60 for the year just closed. The leading branches of the fishery are dealt with under separate heads.

COD.

Cod-fishing began early, and on the south shore the yield of the summer fishery, which closes about the 15th August, was a fair average. On the north shore, west of Natashquan, during the same season, cod were not as abundant as usual, in fact at the extreme western end of this coast, from Moisie to Manicouagan, the summer fishery was almost a complete failure. Strong westerly winds prevailed, as a result the bait was kept off shore, and the cod naturally followed, while the boats were frequently for many days in succession unable to venture out. At and below Natashquangoing east as far as St. Mary's Islands, cod were more than usually abundant, and large catches were made by such vessels as were fortunate enough to have followed the fishing on this part of the coast. In the neighbourhood of Cape Whittle several Nova Scotia vessels secured fares of over 1,200 cwt. each in three weeks. Below St. Mary's on down to Blancs Sablons, the fishery was irregular, the schools only striking

150

in here and there and never holding long at one point. At Blanes Sablons and on down through the Straits of Belle Isle the fishery was unusually good, the harbours and coves being sometimes literally blocked with fish. It was generally considered that the presence of this enormous volume of cod in the straits was due to an ice blockade of the outer Labrador Coast, which prevented the bulk of the fish from passing on down to the north, and turned them into the straits. As the fishing on many parts of Big Labrador was a failure there would seem to have been some ground for this conclusion.

Cod were very abundant during the season of the fall fishery, which begins with September and ends with October, but unfortunately the weather was rough, and comparatively little fishing could be done. Many boats were either destroyed, or damaged by being washed ashore from, or broken up on their moorings. This was particularly the case at Percé where on the night of the 1st of October over 40 boats were either totally lost, or so damaged as to have been rendered useless for the balance of the season. Immediately prior to this storm the boats had been

taking all the fish they could handle.

These constantly recurring losses speak more loudly than words, as to the necessity for furnishing at the large fishing centres some shelter for the fishing boats, and though such a complete loss of property as that which occurred at Percé appeals more directly to our sympathy, it should be understood that it is a mere bagatelle compared to the losses which are constantly happening owing to the lack of the necessary shelter along a large part of the coast, as on the slighest appearance of bad weather the boats are either afraid to venture out at all, or if actually on the fishing grounds are obliged to up anchor and run before completing their trips so as to reach shore and be beached before the sea has had time to make. The act of beaching a heavy boat in rough weather is one which no matter how carefully or skilfully done always causes strain and irjury; then again when the boats are once ashore and hauled up several days are lost before they can be launched again and re-ballasted, for though a boat may be beached with a heavy swell on shore, it requires absolutely smooth water to relaunch her. It is safe to say that at an exposed station like Percé one-fourth of the fishing season is lost in this way, and the same causes operate to a greater or less extent at all stations where there are not secure harbours. This want of shelter operates against the fisherman and the fishing interests in still another way, as owing to the necessity for beaching the boats, they have to be built as slightly as possible, and their size has to be kept down so that they may be easily handled, and quickly run up on the beach—as a consequence we have a class of boats that is too small to carry on the fishery to advantage, they can not hold enough—they cannot venture far enough to sea to reach the outer banks, which they should be able to fish, when the inshore fishing is slack-so that generally speaking they are not as able, safe, solid and comfortable as they should be. It is of course quite out of the question to build breakwaters at all the points where they are asked for-but at certain central stations, to be selected by impartial experts, harbours of refuge should be provided at which the boats could rendezvous and be kept afloat. Protecting the fisherman from loss, and enlarging the field of his operations means cheapening the cost of his product. Our fishing industry never required this assistance as much as it does to-day when owing to a variety of circumstances our exporters are practically shut out from all of their usual markets. In Spain, Portugal, and throughout the Mediterranean the heavily bountied French fish has driven us out, while in the most of the South American and West Indian markets what between the heavy duties, and the impoverished condition of the people, due to the constantly recurring civil wars, it is impossible to dispose of our dry codfish at anything like a profit.

SALMON.

The salmon fishery of 1896 has been one of the best of recent years, salmon were everywhere abundant. The following table which gives the annual catch for the past 20 years shows very clearly the flourishing condition of the fishery:—

Year	Quantity lbs.
1877	873,553
1878	1,175,160
1879	903,856
1880	469,140
1881	364,065
1882	452,707
1883	489,975
1884	556,858
1885	652,098
1886	496,612
1887	638,321
1888	622,907
1889	556,817
1890	568,854
1891	638,077
1892	672,740
1893	658,280
1894 1895	756,181
	569,136
1896	933,517
Total	12,848,854

By the above table it is shown that only once during the past 20 years has the catch of 1896 been exceeded, and that while from 1877 to 1886, the total catch amounted to 6,234,024 lbs. during the last 10 years from 1887 to 1896 it has amounted to 6,614,830 lbs. thus maintaining an even improved average. These figures are fairly accurate, and are certainly under rather than over the mark, they do not include the angler's catch, the returns of which are not regularly made to us. In connection with this, it should be borne in mind, that sport fishing for salmon has greatly increased, at least twice as many rods being fished now as we had in 1877. This condition of the salmon-fishery has been maintained in the face of a slight increase in the number of net fishing stations. During recent years we have succeeded in removing a great many nets from some of the overcrowded estuaries. This has been done in some rivers by cancelling, and not renewing, the stations of those who have left the coast, or in the event of the death of the holder of more than one license, the issuing of not more than one to his successor. In other rivers such as the Grand Cascapedia, Grand River and St. John's, the estuary nets have been bought out by the anglers, that is to say, by an arrangement between the net fisherman and the anglers, the former have agreed not to fish their stations, for which they continue to be licensed, and for so doing they are paid by the anglers an amount equal to the annual net yield of the station, the department agreeing not to issue any new licenses in estuaries where this arrangement is made. This seems to be a perfectly fair arrangement, and one that works well for all parties, under it the holder of the estuary license is fairly recouped for the loss of his fishing, the anglers gets a greater run of fish in the river, with the holder; of the outside net stations are making larger catches. There is no doubt that under this arrangement a larger number of breeding fish survive in the rivers, and in the rivers where it has been adopted the fishing has most decidedly improved.

Between Cape Whittle and Blanes Sablons, it was noticed that while there was a scarcity of large salmon there was a heavy run for small fish which passed through the ordinary 5-inch gill-net used on that part of the coast. By the above it will be seen that we are fairly holding the balance as regards the salmon-fishery, a most unusal occurrence as regards any fishery. I would therefore strongly urge especially as my connection with the gulf fishery has been closed, that no change be made in the present method of dealing with the fishery, that is, that the number of the estuary nets be everywhere kept down—that the arrangement under which anglers are encouraged to buy out estuary nets be continued, and that the number of salmon-net stations be nowhere increased beyond the present limit.

LOBSTERS.

The lobster fishery shows a slight increase over that of 1895—this is, however, entirely due to an increase in the number of traps fished; the following table shows this:—

	No. of	traps fished.	No. of lbs. canned
1895 1896			1,002,492 1,158,822
Increase in 1896	=	6,515	156,330

The number of lobster canneries is steadily increasing and lobsters are being fished far off many parts of the coast which it was not considered profitable to fish in the early days of the industry. A number of new canneries will be put up during the coming Spring, along the south shore of the gulf, in that part of the

county of Gaspé, west of Cap des Rosiers.

If it is at all desirable that the lobster should be preserved from extinction, the time has surely come when some active measures should be taken to greatly restrict the fishery. We absolutely control the market, as with the increased size limit now in force all along the New England coast, the canning of lobsters there has been practically prohibited. This being the case, I think we are fully justified in either increasing the size limit, and seeing that the rule was enforced, or in

greatly restricting the amount of fishing.

There is an unlimited demand for canned lobsters, the price is steadily rising, lobsters are not canned anywhere outside of the Dominion. So that we furnish the sole supply, and have no outside competition to fear. Under these circumstances, and viewing the present exhausted condition of the fishery, the time has arrived when means should be taken to put a stop to the destructive methods now practised. If we greatly reduce the output, and insist on more care in the preparation of the canned article, the price will rise in proportion, and I cannot see that either canners or fishermen will suffer by the restriction, while the future of the industry will be secured.

HERRING.

The catch of herring was a little better than in 1895. Spring herring were abundant all over the gulf, they were however only taken for bait or manure. A large trade was at one time carried on between several of our gulf ports and Boston in this cheap Spring herring, but the imposition of the duty on salted fish which followed the abrogation of the Reciprocity Treaty, at once put an end to it. At present the market for salted summer and Fall herring is confined to the province of Quebec, but were more care taken in the curing and barrelling of the fish, and a proper inspection insisted on, the demand for it would be increased and extended.

MACKEREL.

The catch of mackerel shows a still further falling off, the statistics giving us only 6,835 brls, as against 7,653 in 1895. Much disappointment was felt among the fishermen at this result, as from the presence in 1894 and 1895 all over the gulf of immense schools of young mackerel, a better fishery had been hoped for in 1896. Complaints continue to be made by the Magdalen Island fishermen that their hook and line fishery for mackerel is greatly injured by the immense fleets of gill-nets fished by foreign vessels all round the island. They suggest as a remedy that no mackerel gill-nets should be allowed to be fished between the 15th July and the 1st October.

SMELTS.

The smelt-fishery continues to increase, especially in the estuary of the Restigouche where a very extensive bag-net fishery, is prosecuted under the ice in January and February. This fishery which has only been introduced during recent years, gives employment to quite a number of men who would otherwise find it difficult to get employment during the Winter season. Sometimes enormous catches are made, instances being given of men clearing two hundred dollars after only a few days fishing. These are of course exceptional instances, but on the whole good wages are made. Smelt are found abundantly, in most of the north shore rivers, but at the season when they could be taken, navigation is closed and it is impossible to get the fish to market.

SEALS.

The return of the seal hunt shows that about the same number of skins was taken as in 1895. The great falling off in the value of the oil does not encourage our fishermen to prosecute the seal hunt at the ice in March and April as vigorously as they used to when the oil was worth more than double as much per gallon as it now is. As the vessels required for the ice work need to be specially built and fitted for it, it has followed that as they become worn out, or are lost, they are not replaced. Seals have undoubtedly increased in the Gulf and a number of vessels from Newfoundland made good fares last spring between Rich Point and the East end of Anticosti.

BAIT.

The bait fishes such as herring, capelin, squid and launce show no falling off; they may occasionally miss at one point, and be more than usually abundant at another, but on the whole it cannot be said that bait is not as plentiful as ever it was. With some few exceptions, which have been duly reported by the local officers from time to time, the fishery laws and regulations have been well observed.

It having been decided that I am no longer to have charge of the gulf fisheries, I desire to tender my sincere thanks to all those, both fishery officers, fishermen, and others, who have during the past eighteen years done so much to make my work easy and pleasant. The condition of the gulf fisheries, and more especially of the salmon fishery with which our *regulations* have most to do, is the best evidence of the care and fairness with which these have been observed and administered.

SYNOPSES OF THE REPORTS OF LOCAL OFFICERS,

BONAVENTURE COUNTY .- RESTIGOUCHE SUBDIVISION.

Overseer Verge reports a greatly increased eatch of salmon. The figures being for 1895, 40,362 lbs., and for 1896, 82,291 lbs., or more than double. The fly-fishing

on the upper waters of the Restigouche River was also exceptionally good.

There was also a considerable improvement in the smelt-fishery, the returns showing 739,630 lbs. compared with 577,558 lbs. in 1895. So far these enormous catches of smelt do not seem to have in any way affected the Spring run of spawning fish, as during the spawning season in the Spring smelt were actually more abundant than they have been for fifty years past. There can be no doubt that this condition is solely due to the prohibition of Spring fishing, at which season, until quite recently, farmers had been in the habit of taking large quentities for manure.

Mr. Verge favours allowing the fishermen to begin the smelt-fishing at an earlier date than the 1st of December. An extension at the end of the season he does not favour, as by this time smelts have fallen off in value, and the weather is getting so mild that many fish are lost or spoiled in transit. Neither dealer nor

fisherman really benefit by the Spring extension.

The fishery regulations were generally well observed, with the exception of certain cases which were duly reported to the department.

CARLETON SUBDIVISION.

Overseer Dagneau reports the salmon catch as being one-third greater than that of 1895. Cod were scarce in the summer, but abundant in the fall. However, very little fishing was done, as late in the season when the fish were abundant, the weather was too rough to allow the boats to get out to the fishing grounds. No violations of the fishery regulations were reported.

BONAVENTURE SUBDIVISION.

Overseer Smith reports a decided improvement in the salmon fishery, the catch being the best of recent years. Lobster-fishing began during the first week of May. Three canneries were operated, and the pack was slightly greater than that of last year. Spring herring were abundant all along shore in the division. Cod-fishing was fair all through the season up to the last week in October, when the weather became too rough to continue fishing. The fishery regulations were well observed.

PORT DANIEL SUBDIVISION.

Overseer Ross reports the cod-fishery as showing an improvement over that of last season, but the prices received by the fishermen were much lower than they have been for years. Herring-fishing was about the same as usual. The lobster pack is slightly increased, but this is due to a fine fishing season and an increased number of traps. The salmon catch was about an average. The close seasons were well observed and no abuse of the fishing regulations were reported.

GASPÉ COUNTY.

GRAND RIVER SUBDIVISION.

Overseer Jones reports a slight increase in the catch of cod during the early part of the season the fishing was excellent, but towards the fall, owing to rough weather, the fishing fell off greatly. The lobster-fishery was not as good as in 1895,

and although the return shows a larger yield, this was due to a considerable increase in the number of traps. Salmon-fishing was better than in 1895, but the herring catch was not up to the average.

GASPÉ SUBDIVISION.

Overseer Annett reports all kinds of summer fishing as having been good. Cod shows an increase of 9,095 cwt., though owing to rough weather the fall fishing was a failure. Salmon net-fishing shows a large increase, being 62,648 lbs. in excess of that of 1895. Herring shows a falling off; this was due to the failure of the Fall fishing owing to rough weather. Lobster-fishing was almost exactly the same as that of 1895, but the number of traps was increased. Very few mackerel were caught, and very few were seen anywhere about the coast. Smelt-fishing was good, showing an increase of 11,757 lbs. Two parties were fined for illegal salmon-fishing; with this exception the regulations were well observed.

FOX RIVER SUBDIVISION.

Overseer Theriault presents no report concerning his subdivision, and it may be stated that the summer cod-fishery was good, but owing to the heavy weather in the Fall this fishery failed. Very little salmon netting is done in this subdivision as only one small station is fished. One lobster cannery fishing 500 traps was established at Fox River Cove; the catch was good and the lobsters of large size. This was the first season that any attempt to take lobsters, save for domestic use, was ever made west of Cape Gaspé. It is proposed to establish a number of canneries next year, as the fishermen report lobsters to be abundant.

MONT LOUIS SUBDIVISION.

Overseer Lemieux reports the Summer cod-fishing to have been about as usual, but during the Fall the fishing failed completely owing to bad weather. Herring were abundant all through the season. Salmon were more abundant than usual. Mackerel were not seen on the coast. White porpoises did not visit the coast to the same extent nor as often as usual; they have usually been blamed for driving the fish off, but their absence this season does not seem to have mended matters.

STE. ANNE DE MONTS SUBDIVISION.

Overseer Sasseville reports the cod-fishing to have been smaller than usual, though about the same number of men carried on the fishery. There is no doubt this fishery is failing in the river. Herring were very abundant, some 2,000 barrels having been put up. Salmon-fishing was a failure, only a few stations were fished, and at these, owing to heavy weather during the season of fishing in June, the nets were more often ashore than afloat. Fly fishing in the Ste. Anne's River was excellent, 350 salmon averaging 20 lbs. were landed with the rod. No mackerel were seen on the coast, and capelin were scarce. Fishery regulations were well observed.

MAGDALEN ISLANDS SUBDIVISION.

Overseer Chevrier reports that the sealing vessels at the ice in April did badly. Seals were also scarce on the inshore ice. The spring herring-fishery was poor at the opening of the season, owing to rough cold weather keeping the fish off shore; later, however, the fish came in. The local fishermen did not do as well as usual owing to the presence of a trap-net which caught fish all the time, and provided the cod-fishing vessels with the bait they wanted. Mackerel-fishing was not as good as usual. The general impression among the local fishermen is that the setting of such

large numbers of gill-nets round the islands from vessels has caused this decrease; they also believe that the practice of dressing the fish on the grounds is hurtful. Mr. Chevrier's opinion is that no mackerel gill-nets should be allowed in the water between the 15th of July and the 1st of October. The cod-fishery was better than last year. The lobster canning returns show an increased pack; this was due to a considerable increase in the number of canneries and the amount of gear fished. Mr. Chevrier reports that considerable illegal lobster canning was carried on in spite of all that the local guardians could do; many traps were destroyed. He states that the most effective way of stopping this fishing during the close season for lobsters, is by keeping a cutter on the station.

SAGUENAY COUNTY.

POINTE DE MONTS SUBDIVISION.

Overseer Comeau reports the fishing season as having been unfavourable, owing to the prevalence of high winds, chiefly from the north and north-west, which had the effect of driving the bait off shore, a scarcity of cod and herring naturally followed. The salmon catch was however remarkably good, the season of 1896 being one of the best on record, the exact figures showing that 30,758 were caught in 1895 and 77,638 lbs. in 1896, and these figures do not include the anglers catch. The weather was not in the fishermen's favour, and many days were lost to them owing to the damages sustained by the nets. Salmon were abundant in every river in the subdivision, the increased numbers in the pools could be easily noted. Mackerel were scarce and none were seen near shore. Immense numbers of white porpoises were seen at various times during the season, a few were shot but no regular hunt was made for them. The Winter seal hunt was good, the total number killed being above the average. Smelts were abundant, but owing to the want of communication during the season at which they could be taken-November-the catch is limited to the local requirements. Pearl fishing is being carried on to a considerable extent in some of the salmon rivers, and some regulations are required to control it, as the salmon are disturbed on the spawing beds, and in some cases the ova are raked over and destroyed. The pearls are found in the fresh water mussels which exist in all the streams. Angling for salmon and trout was good on all the rivers in the subdivision, the catches being above the average.

MOISIE SUBDIVISION.

Overseer Migneault reports that salmon-fishing began on the 20th of May and closed on the 23rd July. The catch was exceedingly abundant the returns showing a yield of 223,122 lbs., or an increase of 81,320 lbs. over the preceding year. Between the 15th June and the 9th July, 449 salmon were taken on the Moisie River with the fly, and when the anglers left fish were still rising freely. The sea shore salmon netters did poorly owing to the rough weather, as their nets were frequently washed ashore. Cod-fishing was poor—this was largely due to the fact that the capelin kept off shore, in fact both herring and capelin were forced to keep in deep water owing to the constant strong winds. As the cod-fishing in the Moisie Subdivision is carried on close inshore this absence of the main baits on the regular fishing grounds was necessarily followed by a poor fishery. The mackerel fishery was a complete failure, it has now been five seasons since any mackerel were seen on this part of the coast. Times are very hard on the coast owing to the failure of the cod-fishery.

MINGAN SUBDIVISION.

Overseer DuBerger reports the yield of the cod-fishery to be 8,850 cwt. short as compared with 1895, this is in part due to the fact that fewer boats from the south shore were engaged in the fishery. Owing to the failure of foreign markets the large fishing firms are not anxious to handle too much fish. Salmon net fishing was

excellent, 73,900 lbs. being taken as compared with 22,000 lbs. in 1895; there was also increase of 47 brls. in the salted catch. The Spring seal hunt, though a long way below the former average, shows for this year an increase of 1,230 skins, and 5,210 gallons of oil, over the yield for 1895. The catch of herring was a failure, this is due to the absence of the usual fall run of herring on the coasts of Labrador and Newfoundland, the vessels from Esquimaux Point which go down to the straits of Belle-Isle to prosecute the Fall herring-fishery returned with only 370 brls. in all. Mr. Chevrier is anxious that certain repairs should be made to the hut in which he lives at Mingan, the hut being owned by the department.

NATASHQUAN SUBDIVISION.

Overseer Gaudin reports the Spring seal-fishery as being only a medium one—the fishermen in the schooners reported the seals plentiful, but the ice conditions were such that they could not reach them. The salmon-fishery has been the best for the past 10 years. The improvement was in the catch made in the estuaries of the Natashquan and Agwanus rivers, the ordinary nets on the sea shore which are more exposed only made an average catch. The anglers on the Natashquan did well, 4 rods having killed 250 fish in about three weeks. Lobster canning was carried on in a small way by two movable canneries. The cod-fishery though late in beginning was exceedingly good, and lasted longer than usual, the catch was more than double that of 1895. The late beginning of the fishing was due to the fact that the capelin only struck in on the 23rd June. Herring were scarce throughout the season. The fishery laws were well observed and no fines imposed.

ST. AUGUSTIN SUBDIVISION.

Overseer LeGouvie furnishes no report. It may however be stated for this subdivision, that the cod were very unevenly distributed, being unusually abundant at the western end of the subdivision between Romaine and Harrington, the vessels fortunate enough to be on this part of the coast during the end of June and beginning of July did wonderfully well, many of them filling up and leaving for home after only a couple of weeks fishing. Off the eastern shores of the subdivision, the fishery was a failure, the cod passing down off shore, outside the reach of the fishermen. Salmon-fishing was a failure, it was remarked by the fishermen that there was an unusual run of small salmon, fish of only five or six pounds weight. These of course would not mesh in the regulation 5 or 6-inch mesh. There is a general feeling among the resident fishermen that the salmon-fishery is being ruined by the large number of cod traps which are being fished of recent years. The sedentary seal-fishing with nets was about an average. Herring were not abundant though a few good hauls were made at Mutton Bay and Meccatina.

BONNE ESPERANCE SUBDIVISION.

Mr. Whitely reports a poor salmon-fishery; the run began about the usual time 25th June, but mature fish were never plentiful. Here as in the subdivision to the west an unusual run of small salmon was observed, and reports from north on the outer Labrador say the same condition was noted there. Cod-fishing was fully up to the average, and east of boundary in the Straits of Belle-Isle they were unusually abundant. Capelin and launce were very abundant, and no difficulty was experienced at any time during the season in getting all the bait needed for fishing purposes. All the setlers are getting traps for cod-fishing, instead of seines, these latter being very little used at present. This change of appliance benefits the hooking, as the traps being sedentary, do not worry and disturb the fish as the cod seines did. Dry cod-fish met with a ready sale, and with the exception of the usual drones all the families in the subdivision are well off for the Winter, in fact many have a year's supply of provisions ahead.

I have the honour to be, sir, Your obedient servant,

SYNOPSES OF FISHERY OFFICERS REPORTS IN THE PROVINCE OF QUEBEC (EXCLUSIVE OF THE GULF DIVISION) FOR 1896.

SOUTH SHORE, RIVER ST. LAWRENCE, FROM CAPE CHATTE TO POINT LEVIS.

Overseer Johnny Joneas reports cod and halibut-fishing on the south shore of the St. Lawrence a complete failure; in fact the catch returned was made on the north coast by some of their fishermen. The large numbers of belugas (white whales) prowling in that vicinity have no doubt a tendency to frighten the cod away. Herring and salmon fishing were satisfactory. Many salmon ascended the Matane River, but only fifty were caught by anglers. The fishery regulations were well observed. He suspected some parties of spearing salmon in the upper waters of Matane River, but could not secure proof of their guilt. The total value of the fisheries of Matane district are given at \$17,850, an increase of 50 per cent over that of last year.

Overseer L. E. Grondin states that salmon seemed scarce on that part of the south coast of the St. Lawrence. While sardines were not plentiful, herring was abundant and remained as late as November. Large quantities were taken to make up the deticiency in other species. Fishermen are rejuctantly conforming to the regulation compelling them to have their weirs open during Sunday, but he reports progress in that respect. The fisheries yield of this district is valued at \$46,500, an increase of over 30 per cent over that of last year.

Overseer H. Martin reports a considerable improvement in the yield of salmon, shad, herring, sturgeon, and eels, and a decline in sardines and coarse fish, as compared with the previous results. The increase of nearly four thousand barrels of herring is specially noticeable. The fishery laws were generally well observed, and no infractions came under his notice. The total value of the catch of fish is computed at \$35,500, an increase of \$11,000 over that of the previous one.

Overseer Nap. Levesque states that the returns of the fisheries under his charge fell short of the average yield. This he ascribes to the stormy weather prevailing during the fishery season. About one third of the catch is consumed for local use, and the balance disposed of on the Quebec markets. The only violation reported was that of two parties caught fishing with nets at River du Loup without license.

Overseer X. Pelletier states that notwithstanding the catch of fish equals the previous one, there is no doubt that fish are generally on the decline. Salmon, shad and bar-fish formerly plentiful are now seldom seen on this coast. Sturgeon are getting scarcer every year. Sardines were rather plentiful especially at Kamouraska and St. André, where a sardine factory was in operation during the Summer, putting up nearly a thousand cases of a hundred boxes each. Eels are still abundant, and when the season is favorable large catches are effected, especially after a few days of strong north-east winds, while with high temperature and during calm weather, few are caught. The whole catch is valued at \$29,500, about the same as last year.

Overseer O. V. Beaubien reports the reappearance of shad in their waters, 50,000 lbs, being taken. As the fall was windy, the catch of eels was very good. Seining for smelts has been almost entirely abandoned. Excepting about 10 per cent used for local consumption, the catch is disposed of on the markets of Quebec City. The value of these fisheries is reckoned at \$26,430.

NORTH SHORE, RIVER ST. LAWRENCE, FROM QUEBEC TO BERSIMIS.

Overseer L. P. Huot, states that salmon-fishing was almost nil this summer. Shad shows signs of improvement, but bar, whitefish and mackerel gave the best returns. Although the catch of eels seems satisfactory it falls short of that of the previous season, which was an exceptional year. Smelts are gradually decreasing. The whole catch, valued at \$17,000, is disposed of on the Quebec market.

Overseer U. Bhereur makes no report, but returns a smaller eatch than last year.

Overseer L. N. Catellier, of the Saguenay District, reports an increase of nearly 100 per cent over the previous catch of fish. It is true that the year 1895 had fallen short on account of rough weather damaging the salmon stands on three different occasions. The following figures seem to prove a steady increase for several years past:

Lb	s. of salmon.
1892	48,000
1893	68,780
1894	
1895	
1896	146,820

This beneficial result should be at least partly credited to the distribution of fry from the Tadoussac Hatchery. It is so admitted by most of the fishermen and anglers. The different tributaries of the famous Saguenay are all reported well stocked with parent salmon. All the salmon caught in this district are shipped to

Montreal and Quebec, very few being used for home consumption.

The brush weirs or fisheries are generally set in this district, for domestic use, catching mostly herring, sardines, caplin, and occasionally a few salmon. No barfish are ever caught in these weirs as on the south side of the St. Lawrence. The fishery laws were well observed on the St. Lawrence shore, but much illegal fishing was attempted on the Saguenay River with floating nets by proprietors of schooners and other parties roving about in small boats. As many as fourteen such illegal nets were confiscated by the patrolman guardian Wm. Mannings, but he could not detect their owners.

Mr. Catellier recommends the use of a small steam launch to properly patrol the Saguenay district, which could also be utilized for the distribution of fry and thus save a considerable amount. The total yield of this district is valued at

\$32,000, an increase of \$5,000 over 1895.

INLAND DISTRICTS.

SHERBROOKE AND MEGANTIC.

Overseer John McCaw of Sherbrooke and vicinity states that Lake Aylmer, a large sheet of water in the county of Wolfe, at one time swarming with bass, doré, maskinongé, pike and whitefish, became almost depleted owing to improper fishways, illegal netting and even explosive materials, but it is now giving signs of improvement. The use of nets have been of late years somewhat checked, as a great many of them have been seized and destroyed by this officer, who says: Most of these poachers are so miserably poor that they have no money to pay the fines, and that he has been lenient with them on that account as, did he send them to jail, their families would suffer more than the culprits. He has reasoned with some of them, a few

desisted from their nefarious practices, others promised to amend but did not do so, on the contrary repaid his kindness by destroying a splendid boat which he had to

guard the lake.

River St. Francis is fed by this lake and if the dams thereon were provided with efficient fish-passes, it would be very beneficial to the lake. At one time the St. Francis was a favourite resort for salmon to spawn. Residents on the river banks between Richmond and Lake Aylmer complain that since the construction of dams, they hardly catch anything.

Lake Massawippi, in the county of Stanstead, is also a fine sheet of water, frequented by lunge, trout and whitefish, and a favourite summer resort. This lake has also been overfished, but lately a club has been organized and its members are

endeavouring to protect it and restore it to its former standing.

Little Magog Lake, properly an enlargement of the Magog River, about eight miles from Sherbrooke is also becoming a summer resort. A fishing club will be

organized shortly to protect its fisheries.

Brompton Lake, between the townships of Brompton and Orford, is one of the finest sporting waters in the Eastern Townships. Parties from the vicinity have been netting on the very spawning beds and have taken tons of fish therefrom. Even explosive materials have been used by peachers. He has caught two of them

in the act and he hopes the lesson taught them will be beneficial.

Little Brampton Lake, a chain of ponds containing lunge and speckled trout is worthy of protection. Here also netting is carried on by well-to-do people of whom better conduct should be expected. A great many complain loudly of illegalities, but very few are willing to specify or lay the proper evidence to implicate any one in particular. The lakes in Orford and Brompton townships are alone sufficient to supply the whole of the Eastern Townships with fish food. The large amounts of money spent every season by sportsmen and tourists should suffice to interest the

neighbouring community in maintaining the fisheries.

Overseer Guy Carr of the county of Compton, estimated the catch of fish at about 25,000 lbs., half of which is shipped away and the balance used for home consumption. The close seasons were fairly well observed, but he finds it almost impossible to check illegal fishing entirely. The fact that he confiscated seventeen gill-nets, one boat, and some spears, in addition to imposing a fine proves the activity of this officer. There are eight fishways all kept in good repair and order by interested parties in this division. The Sawdust Act is much abused here. Some streams are not worth protecting now as the lumber industry might suffer, but the tributaries of Massawippi Lake at least should not be contaminated by sawdust or rubbish.

MAGOG AND BROME DIVISION.

Overseer N. A. Beach who protects the east side of Lake Memphremagog reports that the catch with hook and line was an average one. This lake has become overstocked with the so-called "shad," suckers, eels, etc., since the prohibition of nets and seines, ten years ago. Resident farmers and others complain of being deprived of the privilege of using seines on certain grounds to catch these coarse fish which prey on the ova of the finer grades. Netting being allowed on the Vermont side of the lake, the Canadians naturally feel annoyed at our protecting fish for our neighbours. Some poaching was attempted and this officer seized several seines and spears.

MISSISQUOI BAY.

Overseer P. E. Luke says there seems to be considerable falling off in the catch of doré and whitefish compared with other years when seines were permitted. During the close season some of the Vermont fishermen had the narrow channel from Lake Champlain to Missisquoi Bay filled with pound, hoop and gill-nets completely

blocking it. These nets were found and confiscated by one of their officers and the licenses of the culprits cancelled. Nine-tenths of the catch of this division is shipped to New York.

RICHELIEU RIVER.

Overseer James Finley reports that most of the catch consisting chiefly of eels and coarse fish is shipped to United States. Considerable illegal fishing was carried on, as twenty-one seizures were effected by this officer.

Overseer J. O. Dion states that the water of the Richelieu River remained higher than usual, which allowed the fish to ascend the small streams to spawn. The young fry were afterwards noticed in immense quantities. Could this be continued for a few years these waters would become stocked as heretofore. Some of the fishermen, notably at St. Ours, had only a few days seining. Eels, the staple fish of this division, yielded 18,150 lbs., which are mostly shipped to United States; nearly every other kind of fish, excepting dore, shows a surplus over last year, especially pike and perch. Few infractions of the fishery laws came to his notice. A couple of individuals were discovered fishing with night lines and seines without licenses, and the respective cases duly reported.

BEAUHARNOIS DIVISION.

Overseer John Kelly reports bass, pickerel and maskinongé as more plentiful than last year, owing no doubt to the curtailment of the use of the seine and nets. Should this prohibition last a few years more, fish would again become abundant in these waters, otherwise the time will soon come when no fish will be caught with rod and line. The close season was well observed. The fishways are all kept in good repairs, and the sawdust regulations also attended to.

MONTREAL TO VERCHÈRES DIVISION.

Overseers John Morris and G. Magnan make returns of an increased catch of fish valued at \$9,700, mostly disposed of on the Montreal markets, but these officers make no remarks.

RICHELIEU COUNTY AND ST. FRANCIS RIVER.

Overseer J. F. Picotin reports fishing poor, owing to the high water in River St. Francis. The whole catch, about 16,000 lbs. of fish, is all used for local consumption. A dam was built this year across the St. Francis above the falls, but a good fish pass was placed therein. Besides a few attempts at angling during the close time, no serious complaint reached this officer.

YAMASKA DISTRICT.

Overseer J. Charbonneau states that fishing was satisfactory for the short time devoted to it. Hook and line fishermen fared well, especially in the fall months. It would be the most profitable kind of fishing if the fish were properly protected as it is the least expensive.

Overseer D. Shooner made no report.

NICOLET DIVISION.

Overseer G. Boisvert returns an increased catch of fish consisting chiefly of shad, eels, perch, catfish and other coarse fish valued at \$4,250. More than \(^2_3\) of this yield are sold on Three Rivers markets, and the balance used at home. He experiences great difficulty in obtaining the individual catch from fishermen as most of them are under the impression that if the yield is small the license fees will be abolished. The principal abuse in his district is the use in secluded spots of the small meshed seine for the alleged purpose of catching bait. An officer sometimes sees these illegal seines drying on the owner's premises where he has no right to seize them. He also judiciously recommends that every licensed fishing implement should bear the same number as the license. This would enable the officer to detect illegal gear at a glance.

THREE RIVERS DIVISION.

Overseer C. Vadeboncæur states how difficult it is to get at the exact figures of the catch of fish in his district. For instance trout-fishing is carried on the numerous lakes of St. Maurice County by different residents and others who ship their catch to different localities. The same with tomcod-fishing through the ice on the St. Lawrence by residents in the vicinity of Three Rivers who do not require boats and are not ranked as fishermen.

BERTHIER, MASKINONGÉ AND MONTCALM DIVISION.

Overseer Gabriel Caron reports a slight falling off in the yield of fish as compared with previous years. The close seasons are well observed enough. Excessive netting everywhere and at all times is the worst abuse complained of. These nets not only destroy the fish eggs by moving them, but capture large quantities of immature fish which are disposed of to unscrupulous grocers, and thus a good law having for its object for the protection of fish is evaded.

TERREBONNE DIVISION.

Overseer Joseph Lauzon states that the people are beginning to realize that the fishery regulations are enacted and enforced for their benefit. The law was better respected this year than before. Anglers generally met with fair success. No violations are reported.

OTTAWA RIVER DIVISION

Overseer P. D. Chenier who has recently been appointed reports fish about as plentiful as last year, but returns a greatly decreased catch owing no doubt to a want of proper data. Fishermen complain of sawdust and rubbish being allowed to pollute the Ottawa River. When it is windy their nets become full of this debris and are thereby injured if not ruined. Mr. Chenier has been informed that the passage or entrance to Campbell's Bay becomes so shallow that ice forms almost solid to the bottom, and causes more destruction to fish life every spring than the whole catch for one year. The waters of said bay become so polluted that cattle refuse to drink it, and if holes are made through the ice an obnoxious odour emanates from them attributed to putrid fish. The passage from the bay to the river could be deepened at a comparatively small cost and thus a free outlet to fish would be established and this cause of complaint be removed. He has no contravention of the fishery laws to report.

PROVINCE OF

Return showing the Number and Value of Vessels and Boats engaged in the Fish of Mer employed in the Fishing Industry of the County of

RESTIGOUCHE SUBDIVISION

		F	'ishi	ng V	ESSEI	LS AN	р Вол	TS.		Fishi	ng N	Ілте	RIA	L.		
	Districts.		Ve	essels	,]	Boats.		Gill-1	Nets.	Sm	elt ets.		Seine	s.	n ice.
Number.	DISTRICTS.	Number.	Tonnage.	Value.	Men.	Number.	Value,	Men.	Fathoms.	Value.	Number.	Value.	Number.	Fathoms.	Value.	Salmon, fresh, in ice.
1	Bonaventure County. Head of Tide to Maguasha.			\$		23	\$ 345	203	5050	\$ 5050	90	\$ 5400			\$	82291
										CA	ARL	ЕТО	N S	SUBI	DIVI	SION
2	Maguasha and Nouvelle Carleton Maria					50 90 110	700 900 1300	120 180 240	9000 26000 48000	800 1400 2100			7 20 10		80 225 120	16400 29700 36500
	Total					250	2900	540	83000	4300			37	1260	425	82600
_		1		1				-	В	ONAV	EN'	rur	ES	SUBI	DIVI	SION
2 3 4 5	New Richmond. Black Capes. Capelin. Bonaventure. New Carlisle. Paspebiac. Total.					16 20 135 235 35 120 561	120 140 1600 3250 300 2100 7510	10 18 125 280 35 280 748	1200 2860 6800 10500 1060 1600 24020	0NAV 600 1740 2760 5250 420 800 11570	'EN'		12 56 28 22	300 1220 625 550 2695	120 784 500 425	7000 900
$\frac{2}{3}$	Black CapesCapelinBonaventureNew CarlislePaspebiac					20 135 235 35 120	$ \begin{array}{r} 140 \\ 1600 \\ 3250 \\ 300 \\ 2100 \end{array} $	18 125 280 35 280	1200 2860 6800 10500 1060 1600 24020	600 1740 2760 5250 420 800			12 56 28 22 118	300 1220 625 550 2695	120 784 500 425 1829	7000 900 25900
2 3 4 5 6	Black Capes. Capelin Bonaventure New Carlisle. Paspebiac Total Nouvelle Hopetown Shegawake Port Daniel Anse aux Gascons					20 135 235 35 120 561 40 56 67 180 183	140 1600 3250 3000 2100 7510 1500 1200 680 3500 4860	18 125 280 35 280 748 118 114 95 276 290	1200 2860 6800 10500 10600 24020 24020 542 980 880 3100 3600	600 1740 2760 5250 420 800 11570 PORT 565 595 394 1905 2390	DA		12 56 28 22 118 L S	300 1220 625 550 2695 SUBI 200 210 48 430 550	120 784 500 425 1829 DIVI 150 260 60 510 530	18000 7000 900 25900 SION 1500 1800 41558 8726
2 3 4 5 6	Black Capes. Capelin Bonaventure. New Carlisle. Paspebiac. Total. Nouvelle. Hopetown Shegawake Port Daniel					20 135 235 35 120 561 40 56 67 180 183	140 1600 3250 300 2100 7510 1500 1200 680 3500	18 125 280 35 280 748 118 114 95 276	1200 2860 6800 10500 1060 1600 24020 542 980 880 3100	600 1740 2760 5250 420 800 11570 PORT 565 595 394 1905 2390 5849	DA	NIE	122 56 28 22 118 L S 8 8 2 19 20 57	300 1220 625 550 2695 SUBI 200 210 48 430 550 1438	120 784 500 425 1829 DIVI 150 260 60 510 530 1510	18000 7000 900 25900 SION 1500 1800 41558 8726 58584
2 3 4 5 6	Black Capes. Capelin Bonaventure New Carlisle. Paspebiac Total Nouvelle Hopetown Shegawake Port Daniel Anse aux Gascons					20 135 235 35 120 561 40 56 67 180 526	140 1600 3250 3000 2100 7510 1500 1200 680 3500 4860	18 125 280 35 280 748 118 114 95 276 290 893	1200 2860 6800 10500 10600 24020 24020 542 980 880 3100 3600	600 1740 2760 5250 420 800 11570 PORT 565 595 394 1905 2390 5849	DA	NIE	12 566 28 22 118 L S 8 8 2 19 20 57 R T 118	300 1220 625 550 2695 SUBI 200 210 48 430 550 1438	120 784 500 425 1829 DIVI 150 60 510 530 1510 COU	18000 7000 900 25900 SION 1500 1800 41558 8726

QUEBEC-Gulf Division.

eries, Fishing Materials, and the Kinds and Quantities of Fish, as well as the Number Bonaventure, Province of Quebec, for the Year 1896.

(Head of the Tide in the Restigouche to Maguasha).

Big Cascapedia to Paspebiac Point). 60 2000						Kin	DS O	F F	ISH.							P	Fish			
Maguasha to Grand Cascapédia River). 100	Herring, salted, brls.	Herring, smoked, lbs.	Mackerel, salted, brls.		Lobsters, alive or fresh, tons.	Cod, dried, cwt.	Cod, tongues and sounds, brls.	Haddock, cwt.	Trout, lbs.	Smelts, lbs.	Clams, brls.	Eels, brls.	Squid, brls.	Tomcod or frost fish, lbs.	Coarse and mixed fish, brls.	Fish oils, galls.	Fish used as bait, brls.	Fish used as manure, brls.		
100				2500					3000	238843		15		60000			- • • •			
400 0 500 5 2544 1 8 1 2 8 10 1200 15 10 25 1350 9,445 6 600 8000 10 3 25 5 7 200 90 3000 20 60 50 725 12,303 8 100 18700 16 2544 4 48 8 14 700 18 106 5200 45 85 93 2775 26,245 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mag	guasha	to	Grand	Casc	apédia	ı Riv	er).												
Big Cascapedia to Paspebiac Point). 15	400	9500	õ			8	2 1 5	5 2 7	500 200		8	1.0		1200	15	10	25	1350	9,445	66
70 4500 9 5 12 3 800 4,479 800 6000 22096 1200 1200 7000 3408 2000 6 10 130 1500 375 8000 22,324 6 150 3500 150 60 4000 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 400 4,035 6 6 400 4,035 6 6 400 4,035 6 6 90 10 8 8 7 120 7,678 7 30 300 300 8 9 320 380 380 380 380 380 380 380 380 380 380 380 <	1100	18700	16	2544	4	48	8	14	700		18	106		5200	45	85	93	2775	26,245	16
Paspebiac Point to Point Macquereau). 110	70 800 200 150	4500 6000 7000 3500				$1200 \\ 2000 \\ 200$					12 130 12		40			$\begin{array}{c} 12\\900\\1500\\150\end{array}$	3 275 375 60	800 7000 8000 4000	4,479 16,545 22,324 4,035	80 94 62
110	780	28500		25504		6409	14	110			409		40	,		4827	1240	21800	68,091	86
330 290 195 320 230 3,823 330 320 230 3,823 4,00 4,00 4,00 3,823 3,823 3,823 3,823 3,823 3,823 4,00 3,600 3,600 3,600 3,600 3,600 3,600 3,600 3,600 3,600 3,823 4,600 3,600 3,600 3,600 3,823 4,600 3,600 3,600 3,823 4,600 <t< td=""><td>Pasj</td><td>pebiac</td><td>Po</td><td>int to]</td><td>Point</td><td>Maco</td><td>luere</td><td>au).</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Pasj	pebiac	Po	int to]	Point	Maco	luere	au).		1										
DF BONAVENTURE. 100	330 310 370			13488 36902		$ \begin{array}{r} 290 \\ 670 \\ 3280 \end{array} $										195 410 850	$ \begin{array}{r} 320 \\ 610 \\ 987 \end{array} $	230 140 695	3,823 7,447 35,070	00 32 88
1100 18700 16 2544 4 48 8 14 700 18 106 5200 45 85 93 2775 26.245 1 2780 28500 25504 6409 14 110 409 409 400 4827 1240 21800 68,091 8			-		. , .								-			3185	3353	1635	75,395	00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	of :	BONA	.V]	ENTU:	RE.		l		l											
				2544	4				700		18 409	106	40			4827	1240		26.245	16

RETURN showing the Number and Value of Vessels and Boats engaged in the

·County

GRAND RIVER SUBDIVISION

	F	SHIN	G VE	SSELS	S AND	Волт	rs.	Fis	HING I	MATE	ERIAL	ø
Districts,		Ves	sels.			Boats.		Gill-1	Nets.	S	Seines	š.
	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value,	Number.	Fathoms.	Value.
Gaspé County.			\$			\$			\$			\$
1 Newport. 2 Pabos. 3 Little River (West). 4 Grand River. 5 Little River (East). 6 Cape Cove. 7 Percé and Bonaventure Island. 8 Corner of Beach.					152 40 16 79 55 102 172 15	6500 2017 800 4400 1650 5250 5400 750	350 119 45 193 115 204 342 30	5900 1188 640 2850 2200 4640 6380 1500	2500 640 220 1300 1100 2080 2260 1000	8 6 4 5 2 7 3 8	130 120 150 50 240 70	11 8 14 6 22 9
Totals	1	67	1000	6	631	26767	1398		11100 PÉ SU		1340 VIS	
Totals 1 Barachois 2 Malbaie. 3 Point St. Peter. 4 Chien Blanc. 5 Seal Cove. 6 Douglastown 7 Sandy Beach. 8 Gaspé, North and South. 9 Peninsula. 0 Cape Ozo 1 Little Gaspé 2 Grande Grève to Ship Head. 3 Cap des Rosiers.			1000	6	631 160 57 67 63 90 42 18 30 16 70 62 772	7100 1800 1550 1500 2900 350 350 250 1470 1150 21220	182 72 92 76 59 140 38 46 29 40 16 73 84 - 947			111 3 4 4 3 8 8 24 1 7 3	400 84 112 75 240 960 20	35 10 15 7 12 96
1 Barachois. 2 Malbaie. 3 Point St. Peter. 4 Chien Blanc. 5 Seal Cove. 5 Douglastown 7 Sandy Beach. 6 Gaspé, North and South. 9 Peninsula. 0 Cape Ozo. 1 Little Gaspé 2 Grande Grève to Ship Head. 3 Cap des Rosiers.			1000	6	160 57 67 67 63 90 30 42 18 30 16 70 62	7100 1800 1500 1500 2900 720 450 380 250 1470 1150	182 72 92 76 59 140 38 46 29 40 16 73 84 -	1800 1210 2220 1000 950 2100 3264 1960 394 1720 900	1680 600 700 550 1140 2000 2400 1650 1200 270 1070 270	111 3 4 4 3 3 8 24 1 7 3 64	400 84 112 75 240 960 180 60 2131	33 10 12 12 12 12 12 12 12 12 12 12 12 12 12

Fisheries, Fishing Materials, &c., in the Province of Quebec-Continued.

of Gaspé.

]	Kinds	of Fis	н.				Fis	вн Рко)DUC	rs.		
Salmon, fresh, in ice, lbs.	Herring, salted, brls.	Herring, fresh or frozen, lbs.	Herring, smoked, lbs.	Lobsters, preserved in cans, lbs.	Cod, dried, cwt.	Cod tongues and sounds, brls.	Haddock, cwt.	Halibut, lbs.	Smelts, lbs.	Squid, brls.	Fish oils, galls.	Fish used as bait, brls.	Fish used as manure, brls.	TOTAL VALUE.	
														\$ et	s.
4700 17750 5800 1100 20325	185 72 20 122 200 192 15		250 100 1000 1030	11040 21248 5408 19200 13348 8479	7200 2625 1000 7400 3500 12200 15300 1100	12	145 55 50 71	200 200 2300 2400 300	4000 9000 17000	200 150 100 500 100 300 400 50	4800 2350 1000 5300 1000 8350 11550 900	$\begin{array}{c} 466 \\ 200 \\ 1000 \\ 250 \\ 1800 \\ 2000 \end{array}$		42,570 6 16,925 6 66,373 6 81,311 8	$\begin{bmatrix} 0 \\ 2 \\ 2 \end{bmatrix}$
49675	806		2380	78723	50325		321	5400	30000	1800	35250	7536		286,980 8	2
Barach	nois, M	[albaie,		des R			021								
3514 700 250 642 3054 4318 23040 43147 22230 8640 2300 7336	100 75 50 50 50 100 40 6 20 30 20 120	[albaie,		J	9000 10000 2300 2500 11000 1950 60 150 280 130 2000 1000				1000		4000	1000 1200 900 800 180 380 10 20 80 70 400 200		9,715 10,962 5,085 14,016 5,271 3,734 1,270	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3514 700 250 642 3054 4318 23040 43147 22230 8640 2300 7336	100 75 50 50 50 100 40 6 20 30 20 120	[albaie,		25100 8304 24624	9000 10000 2300 2500 11000 1950 60 150 280 130 2000 1000				1000		4000 5000 11000 530 760 30 75 120 75 750 600	1000 1200 900 800 180 380 10 20 80 70 400 200		52,791 4 12,415 (14,445 (9,715) 10,962 (5,085 (14,016) 5,271 (3,734) 1,270 (11,907) 6,715 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3514 700 250 642 3054 4318 23040 43147 22230 8640 2300 7336 	100 75 50 50 50 100 40 6 6 20 30 20 120 150			25100 8304 24624 3168	9000 10000 2300 2500 11000 1950 60 150 280 130 2000 1000				1000		4000 5000 11000 530 760 30 75 120 75 750 600	1000 1200 900 800 180 380 10 20 80 70 400 200		52,791 4 12,415 (14,445 (9,715) 10,962 (5,085 (14,016) 5,271 (3,734) 1,270 (11,907) 6,715 (0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
3514 700 250 642 3054 4318 23040 43147 22230 8640 2300 7336 	100 75 50 50 50 100 40 6 6 20 30 20 120 150	iers to	to Cap	25100 8304 24624 3168	9000 10000 2300 2500 1100 1950 60 150 280 1300 1000 30470	35 25 500 15	37 25 65 20	6600 20000 36000 9000 15500	1000		4000 5000 11200 1200 530 760 300 75 750 6000 14240	10000 12000 9000 8000 1800 3800 100 2000 52400 725 6000 12000 3500 5500	250 130 800 230 300	52,791 4 12,415 (14,445 (9,715) 10,962 (5,085 (14,016) 5,271 (3,734) 1,270 (11,907) 6,715 (- 000 000 000 000 000 000 000 000 000 00

RETURN showing the Number and Value of Vessels, Boats and

County of

												•				
	F	'ISH	iing V	ESS	ELS A	ND B	OATS.		Fish	ING	MA	TER	IAL.			
Districts.		V	essels	6		Boats	3.	Gill-	Nets.		rap- lets.		Sein	es.	brls.	in ice,
DISTRICTS.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Fathoms.	Value.	Salmon, salted, brls.	Salmon, fresh, ir lbs.
Gaspe County.			\$.\$			\$	-	\$			\$		
Grand Etang and Pointe Sêche Big and Little Chlorydorme Petite Anse and Frigate Point. Grand and Little Vallée Magdalen River Manche d'Epée and Gros Mâle Anse Pleureuse and Mont Louis Rivière à Pierre					57	850 8 560 1140 260 303 700	52 50 50 74 0 26 5 5 6 67	1678 1150 1500 500 658 1078	5 875 5 515 9 900 9 200 5 190 5 480			1		60	2	700 3900 100 3900
Total					381	4890	402	8625	4085	-		5			9	10500
Glaude River to Martin River. Ste. Anne Cape Chatte Total		• • •			20 58 37 115	732 992	116 74	1334 1039	695 576			1	100	90	3	1600 6300 1700
													1	MAG	DA	LEN
Grosse Isle, Old Harry and Grand Entry. Little Brig and Grand Etang. Bryon Island. Wolf Point, South Beach and Low Point House Harbour. Grindstone Hospital and Etang du Nord.	8	360	15000	80	100	3060 4000 1830 150 150	324 350 235 10 11		1000 400 400 200	1	1000 175 300			235		
Amherst and Entry Islands Total					160		558	35920	1200 30660 34620		1475	10	1600	2500 2500 3185	i — .	
									1							THE
Raspé do			1000		772 580 381 115	26767 21220 14020 4690 2069 22940	947 609 402 230	17818 14110 8625 3058	$\begin{array}{c} 11100 \\ 14050 \\ 5030 \\ 4085 \\ 1511 \\ 34620 \end{array}$			64 12 5 2	2131 440 185 140	385 160 290	9	49675 19171 750 10500 7900
			Contraction and and													

Fishing Material, &c., Province of Quebec-Continued.

Gaspé-Concluded.

(Cape Fame to Glaude River).

					Kind	S OF	Fis	SH.						Fis	вн Р	RODUC	TS.		
Herring, salted, brls.	Herring, fresh or frozen, lbs.	Herring, smoked, lbs.	Mackerel, salted, brls.	Lobsters, preserved, in cans, lbs.	Cod, dried, cwt.	Cod, tongues and sounds, brls.	Haddock, cwt.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Clams, brls.	Eels, brls.	Squid, brls.	Fish oils, galls.	Seal skins, number.	Fish used as bait, brls.	Fish used as manure, brls.	TOTA VALU	
100 75 90 380 100 225 210 40					1650 950 650 1300 250 325 725 150	2 3 2 3 2 2		800	2900 1500 4600 4000 400 1400 3300 600					500 400 850 100 150 500 80		500 250 200 450 20 25 250 20	$ \begin{array}{r} 38 \\ 20 \\ 300 \\ 100 \\ 40 \\ 100 \\ \end{array} $	5,766 4,280 9,407 2,515 2,836 5,962	5000555
1220			~~~		6000	14		800	18700	*				3580		1715	648	41,152	
Glau	de Ri	ver t	o Ca ₁	pe Chat	tte).			1	1	1	1	1)		1	1	1	1	
235 590 880					315 280 70			200 400 200	250 750							63 56 13	126	5,601	(
1705					665			800	1000					825		132	300	13,311	(
SLA	NDS	•																	
5080 150 900			950 850 1020						• • • • • •		10	21		3390		300		84,744 14,100 32,481	2
900			25	105670 45408 104264	250 50 350 1255		• • • • • • • • • • • • • • • • • • • •					75 100		2250	250	100 800		41,818 9,969 14,754 60,604 72,720	0 6 4
3300 1400 1100 2900 2145				111244	3087		300				TYO	100		1000					
3300 1400 1100 2900			1778		3087 4987		300					196				10135		331,193	-
3300 1400 1100 2900 2145 ——— 6975			6818	748075									,					331,193	-

RETURN showing the Number and Value of Vessels and Boats engaged in the County of

GODBOUT SUBDIVISION

	F	ISHIN	G VE	essi	ELS A	ND BOA	ATS.	,	Fish	ING	MA	TEF	RIAL.	and the second	
		Vess	els.	,		Boats.		Gi Ne			rap- ets.	2	Seine	s.	brls.
Districts.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Fathoms.	Value.	Salmon, salted, brls.
Saguenay County.			\$			\$			\$					\$	
Manicouagan to Jambons	3	60	900	8	270	5400	223	6500	6500	1	200	9	500	500	10
									М	OIS	SIE	su	BDI	VIS	ION
Jambons and Ste. Marguerite Seven Islands Moisie and Pigou	1	53 13	1000 1200 250	4	11 35 32	540 2250 1600	66 64	1475 1300 5530	800 4780			2 4 6 -	207 140 215	320	
Totals	4	114	2450	13	78	4390	101	8305	6800			12	562	860	
MALE TO THE PARTY OF THE PARTY			1						MIN	IG.	AN	SU	BDI	VIS	ION
River aux Grains and Chaloupe Sheldrake Thunder River Dock Ridge Point and Jupitagan. Magpie St. Johns River Long Point, Mingan and Romaine Esquimaux. La Corneille Totals	13	635	7800 	71		1150 2050 2200 2480 4450 4500 1000 1500 75 19405	173 175 250 61 250 2	500 500 350 300 1500 900 400 200	300 200 150 1500 750 200 100	3	800	2 4 3 5 5 15 	130 95 150 150 1000		5
							N	ATA	SH	ĮU	AN	SU	BDI	VIS	101
Watsheeshoo, Nabisippi and Agwanus. He à Michon Natashquan Kegashka to Coacoachoo	4		2000		28 1 35 15	1036 45 1950 750		850 100 2000 1300	50 595				225	250	2
Totals	4	88	2000	22	79	3781	166	4250	1570			12	495	385	11
							SI	. Al	JGU	SI	IN	SU	BDI	VIS	101
St. Mary's Islands and Wolf Bay Harrington Whale Head West. Mutton Bay Meccatina St. Augustin and Whale Head East. L'anse à Portage et Canso Chicatica					10 40 35 50 30 25 6 3	400 1600 1400 2000 1200 1000 240 100	40	800 700 800 2000 750 500	$\begin{bmatrix} 400 \\ 350 \\ 500 \\ 2000 \\ 400 \\ 200 \end{bmatrix}$	6 5 7 4 4	1200 1000 1400 800 800	3 3 1		$ \begin{array}{r} 300 \\ 200 \\ 200 \end{array} $	1
Totals					199	7940	309	6500	4350	27	5300	17	1120	900	5

Fisheries, Fishing Materials, &c., in the Province of Quebec—Continued. Saguenay.

(Manicouagan to Jambons).

					Kini	DS OF	Fish	•						Fish	PR	ODUC	TS.		
Salmon, fresh, in ice, lbs.	Herring, salted, brls.	Herring, fresh or frozen, lbs.	Herring, smoked, lbs.	Mackerel, salted, brls.	Lobsters, preserved in cans, lbs.	Cod, dried, cwt.	Cod tongues and sounds, brls.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Clams, brls.	Squid, brls.	Coarse and mixed fish, brls.	Fish oils, galls.	Seal skin, No.	Fish used as bait, brls.	Fish used as manure, brls.	Tot. Valu	
77624	897	28000	1500	1	2256	1849	8	2400	4890	4600		20	35	4809	971	192	176	\$ 33,418	c :
Jambo	ons to	Pigou	1).					<u>'</u>											
7248 20814 95060	63 52					225 800 745		300 1000	1100 2202 15500		50 72 50		15	190 845 894	70	90 232 328		3,419 9,350 45,274) [
223122	115					1770	4	1300	18802		172		15	1929	188	650	,	58,043	7
Pigou	to W	atshee	shoo).															
3000	60					815 3250 2000 2820 4000 5220 1500 5000			2800 700 800 800 1000 2000 1500		35 25	10 10 10		$\begin{array}{c} 4600 \\ 1360 \\ 10000 \end{array}$	120	$\begin{array}{c} 1000 \\ 700 \\ 800 \\ 1000 \\ 1200 \\ 500 \\ 1200 \end{array}$	30 50	17,939 11,186 15,175	
73900	370					24605	2		12600	,	438	30		27180	2230	6676	255	156,318	,
Watsh	neesh	oo to C	coaco	ash	.00).						`								
56700	130				2160 1440 30800	1750 70 4300 1350		2000	200	• • • •				1250 50 5200 1750	790 230			9,806 486 35,419 12,242	6 6
56700	130				34400	7470	10	2000	1600		-			8250	1020	560		57,955	
Coaco	achoo	to Ch	icati	ca).				! ,				ŀ	1						
	25 21 128 396				17280	$\begin{array}{c} 200 \\ 2750 \\ 1800 \\ 2000 \\ 750 \\ 250 \end{array}$								1150 2150 2000 2000 3000 600 40	50 175 80 800 130	100 750 450 500 200 75 10		2,124 14,486 10,048 11,418 7,785 4,245 397	
	20 254					60 200					 			150		50		2,178	

RETURN showing the Number and Value of Vessels, Boats and

County of

BONNE ESPÉRANCE SUBDIVISION

]	Fish	NG VI	ESSEL	S ANI	в Вол	TS.		Fish	IN	g Ma	ľERI	AL.		
Districts.		V	essels.			Boats.		Gill-I	Nets.		rap- lets.		Seine	es.	, brls.
	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.	Number.	Fathoms.	Value.	Salmon, salted, brls.
Saguenay County.			\$			\$			\$		\$			\$	
Nabitippi and Bull Cove Rocky Bay and Dog Islands and					′4	200	4	600	300			1	30	30	
Old Fort Bonne Espérance Pidgeon Island and Stick Point Salmon Bay Little Fishery to Belles Amours. Bras d'Or and Long Point Greenly Island and Blancs Sablons	1		1000	8	34 60 12 40 18 30 45	1600 3600 1000 2000 1000 1500 2200	54 115 20 80 36 60 110	$\begin{array}{c} 1000 \\ 1000 \\ 1000 \\ 4000 \end{array}$	1100 1300 500 500 500 2000 500	8 4 6 5 6	$2400 \\ 1000 \\ 1000$	5 8 4 6 4 7	680 400 600 90	$\begin{array}{c} 310 \\ 1560 \\ 800 \\ 1200 \\ 220 \\ 400 \\ 1280 \end{array}$	1
Totals	1	54	1000	8	243	13100	479	13600	6700	45	9640	39	2810	5800	4
										`			AN	ricos	ST
Fox Bay and Salmon Bay					23 18 20 22 15 18	920 720 1000 440 175 270	22 36 38 33 20 25	800 1000 750 500 100 200	400 500 370 250 100 150			1	200 300 150	75 150 70	
Totals					116	3525	174	3350	1770			4	650	295	
								r	ГОТА	L	FOR	ТН	ŒC	OUN	ТУ
Subdivisions.															!
Godbout	3 4 15 4	114 707	2450 9100	77	270 78 485 79	$\frac{4390}{19405}$	151	8305 4650	6800	7	2000	12 42		500 860 2100 385	ii

Fishing Material, &c., Province of Quebec—Continued. Saguenay—Continued.

(Chicatica to Blancs Sablons).

lbs. Hearing colted bulg	Herring, fresh or frozen,	Herring, smoked, lbs.	Mackerel, salted, brls.	Lobsters, preserved in cans, lbs.	ed, cwt.	nes and						mixed fish,			uit, brls.	as manure,	Total
		-	Mac	Lobster cans,	Cod, dried, cwt.	Cod tongues sounds.	Trout, lbs.	Halibut, lbs.	Smelts, lbs.	Clams, brls.	Squid, brls.	Coarse and m brls.	Fish oils, galls.	Seal skins, No.	Fish used as bait, brls.	Fish used as mabrls.	VALUE
1																*	\$ 0
	20				20			¥					40	10	10		223
10	00 00 20 60 00 50				1600 5800 1500 4000 800 2500 4100								1400 3060 1090 3000 800 3000 4000	200 20 30 30 100 400 400	470 1950 370 1500 600 600 1020		9,309 30,948 7,874 21,625 5,327 14,332 22,337
. 4	50				20320						. ,		16390	1190	6520		111,976
30	00			29904 28800 9600 68304	200 900 450 575 2125								500 700 300 500 60 	130 20 20 	100 250 200 300 200 150	50 200 200 200 450	6,074 6,055 2,905 3,812 4,381 1,569

431346 3386 28000 1500 1 122240 66149 14 5700 37892 4600 610 50 50 71708 7354 17933 881 495,191 20

RECAPITULATION.

SHOWING the Number and Value of Vessels, Boats and Fishing Material, &c., in the Gulf Division, for the Year 1896. TOTAL FOR THE GULF DIVISION--PROVINCE OF QUEBEC.

		Number.	-070	
	.sdI ,bs	Herring, smoke	47200 2380 1500	51080
ISH.	, TC	Herring, fresh frozen, lbs.	12000	40000
OF F	, brls,	Herring, salted	5470 23477 3386	32333
KINDS OF FISH.	,90i n	Isəlmon, fresh in	244375 187996 431346	863717
	slid.	Salmon, salted,	222	349
		.9nlsV	\$ 3764 7189 10840	21793
	Seines.	Fathoms.	5393 6326 8148	19867
IAL.		Number.	212 142 135	489
Fishing Material.	Trap-Nets.	Value.	5400 1475 17140	24015
ING]	rap-	Number.	80 20	175
Fish		.snlæV	\$ 26769 70396 31190	128355
	Gill-Nets.	-Fathoms.	121172 109159 47155	277486
		Men.	2384 5788 2675	10847
Boats.	Boats.	Value.	\$ 22495 91706 57541	171742
FISHING VESSELS AND BOATS.		Number.	1360 3080 1470	5910
ESSEL		Men.	1128	242
ING V.	els.	.anlaV	\$ 19000 15450	34450
FISH	Vessels.	Tonnage.	577	1600
		Number,	13	40
				:
	Decommend	Pistraicis,	County of Bonaventure do Gaspé	Grand totals
		Number.	<u> </u>	

RECAPITULATION.

SHOWING the Number and Value of Vessels, Boats and Fishing Material, &c., in the Gulf Division. for the Year 1896,

TOTAL FOR THE GULF DIVISION—PROVINCE OF QUEBEC.

	Number.	_ H 03 00	
	Total Value.	\$ cts. 201,932 37 977,462 46 495,191 20	29969 1.674.586 03
	Fish used as manure, brls.	26210 2878 881	69666
Fish Products.	Fish used as bait, brls.	4686 28433 17933	51052
ish Pr	Seal skins, No.	4630	11984
H	Fish oils, galls.	8097 82850 71708	162655
	Coarse and mixed fish, brls,	45	95
	Tom cod or frost fish,	65200	65200
	Squid, brls.	40 50 50	2351
	Hels, bris.	121 196 <u>2</u> 	317 2351
	Clams, bris.	527 300 610	1437
	Smelts, lbs.	288843 138202 4600	431645 1437
FISH.	Halibut, lbs.	120200	158092
Kinds of Fish	Trout, lbs.	3700 1600 5700	11000
X	Haddock, cwt.	124 7.98	922
	Cod tongues and sounds, bris.	22 175 14	211
	Cod, dried, cwt.	13871 109397 66149	4 189417
	Lobsters, alive or fresh,	4 : :	4
	Lobsters, preserved, in cans, lbs.	130828 905754 122240	1158822
	Mackerel, salted, brls.	16 6818 1	6835
	Districts,	County of Bonaventure do Gaspé	Grand totals

| Number.

STATEMENT showing Yield and Value of the Fisheries of the Gulf Division, P.Q., for the Season of 1896.

Kinds of Fish, &c.	Quantity.	Price.	Value.
		\$ ets.	\$ ets
Salmon, salted Brls. do fresh, in ice Lbs. Herring, salted Brls. do fresh, in ice Lbs.	349 863,717 32,333 40,000	16 00 20 4 50 0 01	5,584 00 172,743 40 145,498 50 400 00
do smoked Mackerel, salted Lobsters, canned Tons.	51,080 6,835 1,158,822 4	$\begin{array}{c c} 0 & 02 \\ 14 & 00 \\ 0 & 14 \\ 75 & 00 \end{array}$	$ \begin{array}{c} 1,021 & 60 \\ 95,690 & 00 \\ 162,235 & 00 \\ 300 & 00 \end{array} $
Cod, salted Cwt. do tongues and sounds Brls. Haddock, salted Cwt. Frout Lbs.	189,417 211 922 11,000	4 50 10 00 3 50 0 10	\$52,376 50 2,110 00 3,227 00 1,100 00
Halibut " Smelts Brls. Clams "	158,092 431,645 1,437 317	$\begin{array}{c c} 0 & 10 \\ 0 & 05 \\ 5 & 00 \\ 10 & 00 \end{array}$	15,809 20 21,582 25 7,185 00 3,170 00
Eels . " Squid . Lbs. Tommy cods . Lbs. Coarse and mixed fish . Brls.	2,351 65,200 95	4 00 0 05 3 00	9,404 00 3,260 00 285 00
Fish oil Galls. Seal skins Pieces. Fish used for bait Brls. do as manure	162,655 11,984 51,052 29,969	$\begin{bmatrix} 0 & 40 \\ 1 & 25 \\ 1 & 50 \\ 0 & 50 \end{bmatrix}$	65,062 00 14,980 00 76,578 00 14,984 50
Total			1,674,585 3
Total value in 1896			1,674,586 03 1,518,829 43
Increase in 1896			155,756 6

STATEMENT showing Number of Men, with Quantity and Value of Material employed in the Gulf Division Fisheries, Season of 1896.

Description.	Value.
40 vessels of 1,600 tons, manned by 242 men. 5,910 boats, fished by 10,847 men. 277,486 fathoms of gill-nets. 175 cod trap and smelt-bag nets. 489 seines of 19,867 fathoms. 87 lobster canneries, employing 2,380 hands. 94,551 lobster traps with trawl lines, buoys, &c. 157 freezers and ice-houses 767 smoke and fishhouses.	\$ cts. 34,450 00 171,742 00 128,355 00 24,015 00 21,793 00 39,705 00 63,126 00 10,390 00 152,925 00
180 piers and wharfs (private). 814 trawl-lines for cod	43,150 00 6,356 00
Total value	696,007,00

PROVINCE OF QUEBEC—EXCLUSIVE

RETURN of the Number and Value of Fishing Boats and Nets, Number of Men, St. Lawrence River from Cape Chatte

Boats. B	Gill-Nets. Brush or Eel Weirs.
Capucins 12 120	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
1 Capucins 12 120 2 Mechins 39 390 3 Grosse Roche 12 120 4 Ste. Félicité 46 460 5 Matane 11 110 6 Rivière Blanche 15 200 7 Sandy Bay 21 315 8 Métis 1 15 9 Ste. Flavie and Ste. Luce 8 120 10 Ste. Anne 3 45 11 Rimouski 4 40 12 Rimouski to Trois Pistoles 30 540	14 12 250 120 50 60 1200 600 17 16 330 160 65 48 975 480 4 80 15 16 330 160 9 180
14 St. André. 15 Kamouraska 16 St. Denis 17 Rivière Ouelle 18 Ste. Anne 19 St. Roch 20 St. Jean 21 L'Isle aux Grues 22 Cap St. Ignace 24 Montmagny 2	40 21 210 400 1 20 8 5 100 100 100 120 100

OF THE GULF DIVISION—Continued.

together with the Yield, Value and Kinds of Fish, &c., on the south shore of the to Point Lévis, during the year 1896.

, brls.		1									
Shad, lbs. Herring, salted, brls.	Herring, fresh, lbs.	Whitefish, lbs.	Trout, lbs.	Pickerel, lbs.	Sturgeon, lbs.	Eels, lbs.	Sardines, brls.	Catfish, lbs.	Mixed and coarse fish, lbs.	Halibut, lbs.	VALUE.
											\$ cts.
217 854 145 145 145 145 145 145 145 145 145 1	20600 3000 23000 11600 1200	200 3050 6050 6200 2380 2300 2310	10000 10000 200 10000 10000 10000 82000	1500 450 950 555 830 825	2120 6950 210 1250 2000 3750 2300 2645 7200 3033 2365 900	8200 1950 5760 1700 5770 111820 26290 19050 16250 31360 8100 10490 35000 45200 24000 30200	10 20 10 78 *677 1170	150		400 500 1150 500	1,272 50 5,512 00 852 50 4,845 00 1,807 00 6,885 00 4,690 00 11,070 00 13,357 50 10,575 00 35,502 20 3,970 00 *9,776 10 6,366 30 2,043 70 2,043 70 2,1888 90 1,283 00 1,283 00 1,283 00 1,283 00 1,975 00 1,999 60 554 50 1,738 40 4,440 15 3,381 50 3,603 80 2,991 95 3,023 05 1,000 00 5

^{*} No. 14. Including 99,200 boxes of sardines preserved in oil, \$4,960. † In No. 5 including 8,000 lbs. Tom cods valued at \$400. † No 17. Including 63 belugas (white whales), \$1,512.

Return of the Number of Fishermen, Value of Vessels, Boats, and Nets as well from Quebec to Bersimis, in the Province

			Boats.			FISHI	NG MA	TERIAL.	
	Districts.				G	Fill-Net	s.	Brus or Eel-W	
Number:		Number.	Value.	Men.	Number.	Fathoms.	Value.	Number.	Value.
	Island of Orleans.		\$				\$		\$
3 St. François 4 Ste. Famille 5 St. Pierre				14 17 27 15 9				14 17 27 15 9	3300 2330 2375 1800 1500 200
8 Ste. Anne de Bea	North Coast. Château Richer upré ty			10 5 23 125	4	380	90	10 5 23 120	950 250 2200 960
11 St. Firmin 12 Tadoussac 13 Bergeronnes 14 Bon Désir 15 Escoumains 16 Sault au Mouton 17 Mille Vaches 18 Portneuf 19 Sault au Cochon 20 Islets Jérémie 21 Bersimis 22 Inland Waters	Saguenay Division.	444444444444444444444444444444444444444	225 60 20 120 80 80 80 80 80 60	5 8 3 2 2 4 4 4 1 3 2	3 3 1 5 	80	180 60 150	3 6 4 5	75 150 100 125 50 30
	als	4.	1030		-	2550	1376	267	16500
Val	ues	3							

^{*}Estimated. No. 23, include 90,000 lbs Ouananiche and 10,000 lbs. pike.

as the Quantity and Kinds of Fish, &c., in the North Shore of the St. Lawrence, of Quebec, during the Year 1896.

					Kinds	of Fis	н.							
Salmon, lbs.	Shad, lbs.	Herring, salted, brls.	Herring, fresh, lbs.	Whitefish, lbs.	Trout, lbs.	Bass, lbs.	Pickerel, lbs.	Sturgeon, 1bs.	Eels, !bs.	Sardines, brls.	Mixed and coarse fish, lbs.	Belugas, No.	VALUE.	Number
										Į			\$ et	s.
232 416 16	9450 5100 250			2140 5920 1000 3320 2885 480		4285 11840 2000 6640 5775 960	2640 3760 1200 3420 2520 360	200 2600	29200 32200 22900 14200 16400 2000		600 4800		3,097 16 4,166 86 1,748 26 2,130 66 1,918 36 272 46	
1540			8000	1032 480	48000	2085 960	1260 360	1800	9700 1800 32570 18770	,	1400	9	1,040 0 260 4 1,954 2 7,185 2	0 0
6500 41480 20680 2500 15900 2000 9500 11460 6900 300 12000	1,000	8 40 50 45 30	1000 3000 3000 2000 500 1000	17030			41000	4600	179740	8 20 15 10 5 5	100000 80000 100000 40000 20000	25	4,280 0 10,236 0 4,236 0 5,36 0 5,225 6 1,609 0 3,722 5 3,312 0 1,460 0 4,900 0 *5,310 0	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
146324	14800	193	21500	34257	110500	34545	56520	4600	179740	240		100	78,544 7	

Return of Fishing Stations, Number and Value of Fishing Boats and Nets, Number extending from Quebec to Upper Ottawa in the

1	FISHING MATERIAL.												
Districts.		Boats		Gill-Nets.			Seines.			net	oop- s or veux.	H	ish or Cels eirs.
200000000000000000000000000000000000000	Number.	Value.	Men.	Number.	Fathoms.	Value.	Number.	Fathoms.	Value.	Number.	Value.	Number.	Value.
1 Sherbrooke and Megantic	(A:		and tro		.)	•			\$		\$		\$
2 Magog and Brome 3 Missisquoi Bay 4 Richelieu River. 5 Châteauguay and Laprairie. 6 Beauharnois. 7 Montreal, Chambly and Ver-	13 102 4 60	do 146 915 60 1050			720		30 5	1200 620 60 1510	493 50	68	6870	9	2000
8 Co. Richelieu and St. Francis	119	1070	150				34	1620	825	56	80		
River O Co. Yamaska and River. O Co. Nicolet. Three Rivers	67 44 43 5	500 275 480 100	65 120 42 10	10	115 15		20 24 16 7		300 200 280 50	15 120 8			(
2 Berthier to Montcalm 3 Terrebonne 4 Lake Two Mountains 5 Isle Perrot and Soulanges 6 Co. Argenteuil.	160 18 6 16	960 150 60	230 20 18 16	68 20	250	175	20 22 		160 210	27 14	21		****
Ottawa River fronting on Counties Ottawa and Pontiac.	95	1500		203		600					10		
Totals	752	7426	1135	422	6650	1963	225	6705	4343	314	7679	47	2018

of Men, together with the Yield, Value and Kinds of Fish, &c., within the District Province of Quebec, during the Year 1896.

				Kı	INDS OF	Fish.								ALTERNATION AND PROPERTY.
Shad, Ibs.	Whitefish, lbs.	Trout, lbs.	Bass, lbs.	Pickerel, lbs.	Pike, lbs.	Maskinongé, lbs.	Sturgeon, lbs.	Eels, lbs.	Perch, lbs.	Catfish, Ibs.	Mixed and Ccarse fish, lbs.	VALUE.		Number.
												\$ (cts.	
1000		60000	8000 21000 3480 500 7100	31325 23500 19760 4660 700 14550	31875 2000 7400 1200 18200	2800 11140	1100 2000 6100	2500 46050 500	39000 9930 600	400	23000 76600 96330 10000	11,389 8,795 3,024 5,934 571 5,235	00 00 90 00	2 3 4 5
3000	1000		5000	7900	7000	3200	8680	48650	47400	5600	158000	9,730	80	7
27800 5400 6350	800 4230 1800 40350	1300 50000 45000	2500 2780 1640 300 4170 3000 2900 800	8000 11375 2075 2500 5500 6200 10000 3950 6500	2900 10810 2210 3400 7500 7050 13500 1950 13500	800 5900 920 200 1100 1200 5000 2700 1500	1000 4065 5800 4000 16000 1000 9500 2850 18200	20480	400 6260 21000 6150 	6380	36800 154750 5000 125000 35200 40000 11650 12000	2,687 6,329 4,240 +2,569 13,934 10,269 3,235 1,220 3,452	35 45 00 00 60 00 50	9 10 11 12 13 14 15
	10500	98100	7100 14650	38220 10600	29200	12130	16050	10700	750	14950	61540	7,824 $12,352$		
45950	76180	290800	84920	207315	159695	48590	96845	258520	156590	74180	900020			
2757	6094	29080	6794	10365	7985	2915	5811	15511	4698	1484	18000	112,794	50	

[†]Note.—In No. 11 add 2,600 bushels of Tom-cods, valued at \$1,300.

RECAPITULATION

Of the Yield and Value of the Inland Fisheries of the Province of Quebec (exclusive of the Gulf Division) for 1896.

Kinds of Fish.	Price.	Quantity.	Value.
	\$ ets.		8 ets
Salmon Lbs.	0 20	171,139	34,227 80
Shad	0 06	150,160	9,009 60
Herring, salted Brls.	4 50	13,146	59,157 00
do fresh LDS.	0 02	1,737,700	34,754 00
Whitefish	0 08	132,927	10,634 16
T	0 10	483,300	48,330 00
Pickerel "	0 05	268,945	13,447 25
Sturgeon	0 06	136,618	7,799 35
Bass	0 08	119,465	10,248 10
Maskinongé	0 06	48,590	2,915 40
Pilze	0 05	169,695	8,484 75
Fels	0 06	897,550	53,853 00
SardinesBrls.		2,802	8,406 00
do preserved in oil Boxes		99,200	4,960 00
Perch Lbs.	0 03	156,590	4,697 70
Catfish "	0 02	83,730	1,674 60
Halibut "	0 10	2,550	255 00
Ouananiche	0 06	90,000	5,400 00
Tom cod Bushel	s 0 50	2,600 8,000	} 1,700 00
do Lbs.		222	5,328 00
Belugas No. Mixed and coarse fish. Lbs.	0 02	1,688,720	25,887 40
Total for 1896			351,169 11
do 1895			349,091 10
Increase			2,078 01

RECAPITULATION

Of the Yield and Value of Fisheries in the whole Province of Quebec, for 1896.

Kinds of Fish.	Quantity.	Price.	Value.
		\$ ets.	\$ ets
Salmon, pickled Brls.	349	16 00 0 20	5,584 00
do fresh, in ice	1,034,856 $45,479$	4 50	206,971 20 204,655 50
do fresh	1,777,700	7 00	35.154 00
do fresh	51,080	0 02	1,021 00
Mackerel, salted	6,835	14 00	95,690 00
Lobsters, canned Lbs.	1,158,822	0 14	162,235 00
do fresh	4	75 00	300 00
Cod, dried Cwt.	189,417	4 50	852,376 50
do tongues and sounds Brls.	211	10 00	2,110 00
Haddock	922	3 50	3,227 00
Halibut Lbs.	160,642	0 10	16,064 20
Front	494,300	0 10	49,430 00
Smelts "	431,645	0 05	21,582 25
Eels, salted	31.7	10 00	3,170 00
do Lbs.	897,550	0 06	53,853 00
Shad	150,160	0 06	9,009 60
Sturgeon	136,618	0 06	7,799 35
Sardines, Brls.	2,802	3 00	8,406 00
do preserved in oil	99,200	0 05	4,960 00
Whitefish Lbs.	132,927	0 08	10,634 16
Maskinongé	48,590	0 06	2,915 40
Bass	119,465	0 08	10,243 10
Pickerel	268,945	0 05	13,447 25
fike	169,695	0 05 0 06	8,484 75 5,400 00
Juananiche	90,000	0 03	4,697 70
Perch	156,590	4 00	9,404 00
Squid Brls.	2,351 83,730	0 02	1.674 60
Catfish Lbs.	1,437	5 00	7.185 00
Olding	1,701	3 110	4,960 00
Fom cod or frost fish	1,707,720		26,172 40
	11.984	1 25	14,980 00
Seal skins No. Belugas, white whales "	222		5,328 00
Fish oils	162,655	0.40	65,062 00
Fish as bait Brls.	51,052	1 50	76,578 00
Fish as manure	29,969	0 50	14,984 50
Total for 1896			2,025,754 46
			1,867,920 53
do 1895			1,001,020 00

STATEMENT

OF the Number and Value of Fishing Boats, Nets and other Fishing Material used in the Inland Waters of Quebec (exclusive of the Gulf Division), for 1896.

	Articles.	Total	1.
1,051 fishing boats (2,326 men) 683 gill-nets (16,483 fathoms) 225 seines (6,705 fathoms) 314 hoop-nets (verveux) 759 brush and eel weirs		\$ 14,657 6,509 4,343 7,679 70,542	9 00 3 00 9 00

RECAPITULATION

Or all Fishing Gear employed in the whole Province of Quebec in 1896.

Articles.	Value	э.	Total	
	s	cts.	\$	cts
40 vessels, 1,600 tons (242 men). 6,961 boats (13,173 men). 293,969 fathoms of gill-nets 714 seines (26,572 fathoms). 175 cod traps, and smelt nets. 314 hoop-nets. 759 brush and eel weirs.	24,015 7.679	00 00 00 00 00		
87 lobster canneries (2,380 hands)	39,705 63,126		484,085	
157 freezers and ice-houses 767 smoke-houses and fish-houses 180 piers and wharfs 814 trawl lines for cod	10,390 152,925 43,150 6,356	00	102,831 212,821	
Total			799,737	00

APPENDIX No. 7.

ONTARIO.

SYNOPSES OF FISHERY OVERSEERS' REPORTS IN THE PROVINCE OF ONTARIO, FOR THE YEAR 1896.

LAKE OF THE WOODS DIVISION.

Overseer M. Kyle, recently appointed in charge of this division, states that the fisheries were prosecuted with even more activity than usual, there being fifty pound-nets more than in 1895, and although fish were not as plentiful the total result is in excess of the preceding year. The exceptionally high water had a tendency to cause the fish to migrate from their usual feeding grounds to others, which under ordinary conditions would not have been available. The quantity of caviare prepared and shipped to New York thence to Europe, was somewhat less than last year. About 75 per cent of the whole catch of fish, consisting chiefly of sturgeon, whitefish and pickerel, valued at \$143,000, is experted to United States markets and the balance shipped to Fastern Canada. Somes cases of illegal fishing were attended to, and resulted in the confiscation of twenty-one gill-nets and 4,500 lbs. of fish. This happened in Lakes Manitou and Sandy. Mr. Kyle recently examined the only fish-way in his district, that of the Keewatin Power Co., on the Winnipeg River, and found it in good order.

LAKE SUPERIOR.

Overseer D. F. Macdonell, who has charge of the upper part of Lake Superior returns about the same quantity of fish as last year, chiefly whitefish and salmon trout, valued at over \$100,000.

Overseer T. H. Elliott reports an increased catch of fish in the lower part of Lake Saperior, which he ascribes to a more vigorous prosecution of the fishing industry. One firm alone admitted having handled 400,000 lbs. of fish more than last year. With few exceptions the close seasons were well observed. One party who was caught fishing during the month of November, was fined and had his nets confiscated. This part of the lake also yielded over \$100,000 worth of fish mostly salmon-trout and whitefish, making an aggregate value of over \$200,000, about the same as last year.

LAKE HURON.

North Channel of Lake Huron, including Manitoulin Island.

Mr. Elliott, who has also charge of this division, reports a shortage in the catch of fish especially in the vicinity of Killarney where fishermen did not even make wages. Excepting some two hundred barrels of fish, the whole catch is shipped fresh to United States markets. Seining, trap-netting and the small mesh in pound-nets are the chief abuses complained of. Seining was illegally carried on especially in the vicinity of Killarney. Some of these poachers boast that they can seine or use nets even when a cruiser is within ten miles. The numerous islands and deep bays of that coast afford them safe hiding places. The mesh of pound-nets should not be less than four inches in extension and that of gill-nets five inches. This measure,

if adopted, might prove detrimental to the fishermen for three of four years, but in the end it would turn out to their advantage. All licensed boats, tugs and gear should be numbered according to licenses. This would greatly facilitate the labour of fishery officers in detecting illegalities. There are no fish-ways here at present, but three or four could be advantageously placed in this district. The total value of fisheries of this part of Lake Huron is reckoned at \$247,730, being a surplus of \$43,000 over the previous one.

GEORGIAN BAY.

Overseer F. J. Smith reports a decline in the fisheries of that part of Georgian Bay owing to a smaller number of boats engaged in this industry. The large yield of pickerel is attributed to hook fishing through the ice. Owing to the demand for these fish, this new industry was pushed with great vigour during the winter months. With few exceptions the close seasons were well adhered to. Illegal seining and netting were still carried on but not to such an extent as last year. Only four prosecutions for illegalities took place during the season. The total yield of this division is made up at \$82,700, a shortage of \$17,500, as compared with the previous one.

Overseer J. Donaldson states that the fish run during May, June and July was much better than last year. Nearly one million pounds of salmon-trout alone were shipped to Buffalo and Detroit from this division as well as 90 per cent of the whole catch. A large quantity of immature fish passed through Collingwood this summer which must have been caught in small meshed nets outside of this division. The close seasons for fish were fairly observed. The whole catch is estimated at \$126,000, being an increase of about 50 per cent over the previous yield.

Overseer R. Edmonstone states that whitefish are decreasing on the south shore of the bay, salmon-trout show an increased yield, but were late in coming on the shoals. Fishermen are complaining of the loose crushed bark stripped off the logs while being towed across to the United States. This nuisance not only damages their nets, but injures the fishing grounds.

Mr. Edmonstone assisted Captain Pearson of the "Dolphin" to seize twenty-two gill-nets in his and the neighbouring district. The total catch is valued at

\$25,000.

Overseer Isaac Lennox ascribes the increase in the cacth of trout in his district to a larger number of licensees fishing for them. There is a considerable falling off in pickerel. The Buffalo Fish Company alone handled over two million pounds of fish, shipping more than half to Buffalo. He also complains that many immature whitefish and trout were shipped through Wiarton and he advocates a regulation making it an offence to capture any of either kind of less than $2\frac{1}{2}$ lbs. in weight. He helped Captain Pearson to seize and destroy some trap-nets and trout-nets, the latter being set within the Cape Croker Indians limits contrary to licenses. The yield of this division is valued at \$40,000.

The total value of the fisheries of Georgian Bay from French River to Cabot's

Head is computed at \$273,900, about the same as last year.

LAKE HURON CONTINUED.

(From Cape Hurd to Point Edward.)

Overseer Charles Briggs reports a decrease in nearly every kind of fish except whitefish which shows a considerable improvement. The number of fishing boats was less than last year, and several fishermen are now only using small fishing rigs who used to fish more extensively. About 70 per cent of the whole catch, valued

at \$70,000, is exported and the balance used in the vicinity. Complaints are heard that bark stripped from logs and ground by friction while being towed across the lake is often washed ashore, injuring both nets and fish. Wherever this bark is found dead fish are to be seen. The close seasons were well observed. This officer has several parties at different points to watch and to keep him posted of any illegalities they might discover. During the month of November he is constantly on the move himself up and down his division. Some illegal fishing was carried on by parties coming from other districts to fish for herring in the fall in his division where shelter is of easy access, and several confiscations were the result. Saw-mills are visited whenever an opportunity offers, and the law seems well respected in that way.

Overseer Hugh McFayden states that fishing on the Saugeen River was the poorest for years. The dry weather kept so long that the water became very low and the speckled trout, (the only kind of fish caught here) sought refuge under logs and stones from the numerous anglers camping on the river banks. He estimates the quantity of that game little fish at 15,000 lbs.

Overseer H. W. Ball states that the falling off in the fisheries of this division is partly ascribed to scarcity of fish, but chiefly because tugs from Goderich were not allowed to fish south of said port as usual. Neither illegal fishing nor contravention of the sawdust regulations came to his notice. Mr. Ball is of opinion that confining the limits of tugs or boats to a specified area is unfair, and he recommends that they be allowed to roam anywhere from their port, provided they could litt their nets and return the same day. He urges the adoption of a close season for herring, and recommends that all fall fishing should cease on 31st of October. The privilege of taking herring during the close season for trout and whitefish give poachers a favourable opportunity to evade the law. Herring, which twenty-five years ago filled Lake Huron is now getting scarce. The decline of herring also means the falling off of trout, as the former affords food for the latter. This officer recommends the prohibition of fall fishing, for a few years at least, as well as the adoption of a larger mesh. Eighty-seven per cent of the whole catch valued at \$43,000, is exported and the balance used for home consumption.

Overseer H. B. Quarry reports the fishing operations of his district as satisfactory. Had the weather been more favourable, the aggregate yield would have exceeded that of 18.5. The improvement noticed in salmon-trout is attributed to the supply of fry from the hatcheries. Good catches of herring were affected. Only two fines were imposed for illegal fishing in this division. Mr. Quarry states that the pound-nets of his division are very much exposed to the heavy gales prevailing on that part of the coast, which not only damage but often destroy them. For the above reason, fishermen would like to see the fee on pound-net licenses reduced. About one-third of the whole catch of fish valued at \$14,700 is used in Canada, the remainder is exported to the United States.

Overseer J. C. Pollock states that he has difficulty in obtaining reliable data of the yield of fish in his division. He believes the catch, such as given, greatly underestimated. Several pound-net fishermen who had rented their gear on shares were greatly disappointed when the owner took them away early in July to the Michigan side, where he expected better returns. This induce them to secure twine and prepare nets of their own for next season and thus become independent of foreign capital. The total yield of this district is valued at \$28,800, and that of that part of Lake Huron, south of Cape Hurd at \$158,600, while the total value of the whole lake including the north Channel and Georgian Bay is reckoned at \$680,276, hardly \$18,000 less than last year.

LAKE ST. CLAIR DIVISION.

Overseer Joseph Boismier remarks that whitefish were more plentiful than last year, both in Lake St. Clair and Detroit River, excepting from Fighting Island to Lake St. Clair, where none were caught. Pickerel also show a fair increase, due to the open season. Large quantities of sturgeon were also captured, but they were mostly of small size. Numerous set lines were used to capture sturgeon, some even without licenses. Bass and maskinonge both show serious signs of diminution.

Overseer C. W. Raymond says that excepting sturgeon, which the Indians say were scarce, the fisheries of Mitchell's Bay gave an average yield, even better than in I895. The anglers, however, claim that bass is decreasing and they blame the use of seines, which injures the spawn. He issued 78 angling permits to foreigners. This officer favours the use of hoop-nots to capture coarse fish which are so destructive to the finer grades of fish, especially young bass. As Mitchell's Bay is a fine natural spawning ground he would recommend the prohibition of the seine entirely therein.

Thames River.

Overseer Peter McCann states that rod fishing in the Thames River was good. At first, large quantities of coarse fish were caught in the spring, then bass fishing was continued till the end of the season. He says that carp have been caught at different places in the river, and judging from their size and number, they will soon prove an unwelcome visitor to our waters. The thirteen fish-ways of this division were kept in good repairs and are pronounced by all parties to be an entire success. Several complaints of illegalities, upon investigation, proved comparatively trifling.

The total value of the Thames River fisheries is computed at \$10,750, and that

of the whole Lake St. Clair including Detroit River at \$42,000.

LAKE ERIE DIVISION.

Overseer J. E. Quick remarks that he has especially watched the black bass in the Pelee Island during its spawning season and come to the conclusion that it spawns from the 15th of May to the 10th July. He found none ready to spawn before the 15th May, and of three opened on the 10th July, two had not yet spawned. He has no complaints against any fishermen of his division. The yield is valued at \$8,000.

Overseer J. K. Laird returns a decreased catch of fish chiefly herring 2,400,000 lbs., pickerel 130,000 lbs., and pike 115,000 lbs. It was about 1st June before all pound-nets were fishing and the heavy gales on the 5th November put a stop to any further attempts of exposing nets. Fishermen complain of being compelled to observe the close season for pickerel while the citizens on the other side of the border fish for them at all times. The whole yield is valued at \$90,000, a shortage of over 25 per cent as compared with the previous catch.

Overseer Wm. Freeland states the falling off in the catch is ascribed to the fact that few fishermen began operations until after the expiration of the pickerel close season (15th May). Fishing remained light until the latter part of October. Here also the storm of the 5th November practically closed the season's fishing. He reports the drowning of two fishermen at Port Bruce. The close season was fairly well observed by our fishermen. The staple fish of this division are herring, 700,000 lbs., and pickerel, 418,000 lbs. The total yield is valued at about \$50,000.

Overseer D. Sharp returns an average catch of fish in his division, although he remarks that pound net fishing was not a success. Fish were late coming on the shores, and the mighty gales of October destroyed the nets to such an extent, that

it ended the fall fishing. The gill-net fishermen, who went out 80 or 90 feet deep, met with good success, catching mostly blue-black pickerel. Mr. Sharp recommends that a clause, compelling the pound-net fishermen to return to the water alive all immature fish found in their pounds, be inserted in their licenses. The total yield of fish in this division is valued at \$35,300.

Overseer W. F. Croome states that the catch of fish in Grand River was about the same as last year and is all used for local consumption. The mill owners are careful not to pollute the streams with saw-dust and debris, although a few manufactures allow colouring matter to escape, but not in sufficient quantity to injure fish life. However, he is of opinion that the sewage of Brantford should not be permitted to flow into the Grand River. There may be no immediate danger, but with the extension of the system it might, in the near future, seriously affect fish life. This sewage should at least go through filtering beds before escaping into the water. The eleven fish-ways in this division have all been in pected and found in good state of repair. The close seasons were fairly well observed and any infractions that came under his notice were throughly investigated. Several parties were fined through the energy of the local Fish and Game Club which rendered valuable services in enforcing the fishing regulations. Mr. Croome suggests the advisability of shortening the close season and of allowing no fishing whatever during said time on all inland streams.

The total catch of fish from the whole of Lake Erie is valued at \$241,200, a deficit of 20 per cent as compared with last year.

LAKE ONTARIO.

Overseer F. Kerr whose district includes the east end of Lake Erie and the west end of Lake Ontario linked by the famous Niagara River, reports that the condition of the fishermen of his division is most favourable, the increase of salmon-trout and whitefish gives hope to those who follow that branch of the industry. Larger quantities of the blue-back herring were caught, but prices ruled lower than last year, thus placing fish within the reach of all classes. These herrings were so plentiful that fishermen could not handle them properly and were compelled to curtail their nets to limit the quantity to the demand. These fish are all smoked and thus more easily disposed of on the markets. They were abundant at every fishing station along Lake Ontario except at Niagara where the falling off could not be accounted for. The run of immature herring at Queenston was immense and no doubt the fishing-traps there slaughtered a great many. So much so, that he recommends the abandonment of this mode of fishing, which he considers very detrimental to the species. On the Lake Erie portion of his district, herring fishing was poor, although a few good individual hauls were made; this was neither continuous nor general. Herring seem to remain more on the United States shore last season. Cisco-herring have almost disappeared and are no more expected by fishermen who now consider them as a thing of the past. Whitefish and salmon-trout were caught in large quantities, especially at Grimsby and Winona. The fact that immense quantities of young whitefish are caught in herring gill-nets proves that they are abundant and that if the supply of the young fish was not disturbed they would shortly become as numerous as formerly. Certain regulations should be enacted to give them due protection. Sturgeon fishing either at Fort Erie or at Niagara was inferior to that of 1895. These large fish are mostly caught now with baited hooks on set lines. They were noticed at nearly every fishing stations on Lake Ontario, and a few were captured even as far down as Burlington Beach, where they had not been observed for years. Sturgeon are becoming more and more valuable as a table fish and are as much sought after as any other kind. Perch, pike and other coarse fish appeared to be as plentiful as ever. Perch should be protected during its spawning season as it is fast becoming a valuable edible fish. Mr. Kerr spent a good deal of time watching the United States poachers on the Niagara River, three men were arrested and fined and a boat and seine seized at Navy Island; at Queenston three parties were fined for fishing without permits and their boat confiscated. At Fort Erie three men were ariested and fined for catching bait illegally, their boats being also seized. Besides these a few illegal nets were taken in Burlington Bay and their owners fined. Only 26 angling permits were issued to foreign tourists. With the assistance of the Fish and Game Protector of New York State, he broke up several poaching parties, and between them they have succeeded in checking seining altogether in this international stream. He recommends the refusal of the privilege to the machine traps usually set at Queenston, as they are injurious to herring.

Overseer Wm. Sargent notices a considerable improvement in the yield of herring. Some very large captures were made during November and December, and had prices remained as good as in 1895, the yield would have been still larger. Angling for bass was satisfactory and some fine specimens were caught. A tew illegal nets were seized and destroyed in Twelve and Sixteen Mile Creeks, and although he could not discover the owners, he found no other since. There are no fish-ways in this district and they are not needed.

Overseer James Stanley reports a surplus in the yield of trout and whitefish, but herring almost a failure, which fact he cannot account for. The gill-net fishermen claim the seine destroys or injures the feeding grounds of the fish. This officer must share in their belief as he recommends the prohibition of the seine in Lake Ontario. Fishing for coarse fish in Presqu'ile Bay was not as successful as former years.

Overseer J. Redmond is pleased to report the increase of the finer grades of fish around Prince Edward County. Whitefish and trout are certainly becoming more plentiful, and the old fishermen have not given up hopes of seeing the good old time of large catches of fish return. They are of opinion that to the distribution of fry from our hatcheries is due the improvement noticed. The close season have been well observed. Three hoop-nets and several gill nets were seized during the summer for illegalities. The total yield of this division is valued at about \$20,000.

Overseer W. P. Clarke returns a small surplus in the whole yield of fish of Bay of Quinté. The quantity of whitefish taken was not quite so large as last year, as no seining was allowed, otherwise it would have been much larger. He states that to the planting of fry in the Bay is attributed the increase in the supply of fish. About the three fourths of the catch is shipped to the United States and the remainder used at home. He has little trouble with the licensed fishermen, but sometimes poachers are met running to the spawning grounds, but he could not convict any. The mill-owners also comply faithfully with the regulations, respecting saw-dust. He recommends that all licensed implement should be so marked either by numbers or otherwise to enable the officer to detect unlicensed gear. Customs officers should be instructed to give foreign anglers and tourists the proper directions and save our officers considerable unnecessary trouble. The total yield of this district is valued at \$16,800.

Overseer James McGlynn reports the fishing operations around Wolfe Island about the same as in the previous season. Coarse fish were plentiful in the spring but scarce in the fall. The low water in this district somewhat affected the fisheries. Whitefish were as abundant as usual but scarcely any salmon-trout were to be seen; the high wind and low water caused them to seek deep water. Bass seemed plentiful in the beginning of the season, but anglers became so numerous that they thinned them out pretty well before the Autumn. Ninety per cent of these sportsmen bring their own food and leave no money in Canada.

Overseer E. H. Sills reports a slight increase over last year's catch ascribed to a more vigorous prosecution of the industry. Low wages and low prices for agricultural products have caused many farmers to add fishing to increase their revenue. He has no abuses to complain of. The various close seasons were well observed. There are no fishways in this district.

FRONTENAC, LEEDS AND LANARK.

Overseer John Purdy for the Kingston district returns a fair catch consisting chiefly of pike and catfish, but makes no remarks.

Overseer Geo. Lake states that less fish were taken in his division than last year owing to a smaller number of persons seeking them. The close seasons were generally well observed. One party was however convicted of illegal fishing and duly fined. The mill-owners have also complied with the regulations. The only fish-way in this division is kept in good working order. Another fish-ladder should be placed at the foot of Bob's Lake. This officer would favour the granting of a few hoop-nets in some of those lakes to capture as many coarse fish as possible, which are now detrimental to the propagation of the finer grades frequenting those waters.

Overseer H. R. Purcell says that the fish are only caught for domestic use in his division. Anglers report fair bass fishing. Several complaints of illegalities, upon investigation, proved groundless.

Overseer R. A. Gilbert also reports hook and line fishing as fairly successful. No netting of any kind is permitted in this division. The close seasons and sawdust regulations were fairly respected. A great number of tourists visit those lakes every summer.

Overseer Robt. Poole thinks that the season's fishing operations compare favourably with previous ones. The increase in the capture of sturgeon is due to the greater number of set-lines being permitted in that vicinity. Bass and pike are caught by summer visitors during July and August. The sturgeon is shipped to New York. All unlicensed gear found in use was confiscated by this officer. He favours the issue of hoop-nets to reduce the supply of coarse fish as bull-heads, catfish, eels, etc., and thereby improving the condition of the game fish.

Overseer J. G. Wallace states that he heard no complaints from anglers of the scarcity of any kinds of fish, and he believes the catch to be quite up to the average. Several small nets were confiscated during the summer, but he thinks they were fished mostly for domestic use by the settlers.

PARRY SOUND AND MUSKOKA.

Overseer G. R. Steele visited as much as possible the different lakes and streams of his division as well as the principal fishing resorts. He is of opinion that the close seasons and other fishery laws were generally complied with and observed. Settlers complain of being refused the privilege of fishing for herring with small nets for their own use. As these fish, which are plentiful in most of those waters, cannot be captured otherwise than with nets, Mr. Steele would favour the use of small nets for that purpose. In visiting saw-mills, he noticed that certain owners while not exactly throwing the saw-dust in the streams deposited it so near the edge of water that some of it would be washed in by the freshets. Consequently all parties were notified to desist from a practice which might be conducive to evil results.

Overseer E. Forsyth states that fish are still plentiful and there has been a slight increase in the quantity of fish taken during the past season, ascribed to the fact that people now generally resort more to fish for food than formerly. He complains of no abuses in his district and no penalties were imposed. He recommends a change in the close season for salmon-trout to begin about the 15th October, as by the first November they have partly spawned in that locality.

PETERBOROUGH DIVISION.

Overseer G. W. Fitzgerald reports that although fishing was better in some localities than others, it was generally more satisfactory than in 1895. Eight different prosecutions for illegalities resulted in as many convictions. There is no more trouble from mill owners respecting the rubbish of their mills. He reports that the different guardians under his charge performed their duties to his satisfaction.

Overseer D. Breeze states that this has been one of the best fishing seasons ever known on the Otonabee River and district. The quantity of maskinonge and bass taken was enormous. This he attributes to the better observance of fishery regulations, especially the saw-dust Act. The mill-owners now endeavour to keep the debris from the streams. The residents on the river banks are now commencing to render assistance in the protection of fish, and finding out that it is in their interest to do so.

He seized three nets and imposed a couple of fines. One party who resisted was fined twenty dollars and costs. This officer's canoe was purposely damaged with spears. Mr. Breeze thinks that the close season for maskinongé should be identical in Otonabee River to that of Rice Lake. If a party be found with maskinongé in his boat, he undoubtedly would claim to have caught it in the lake. There are several dams and more being built in this division which should be provided with fish-passes. The Otonabee between Peterborough and Lakefield with its gravel

bottom would be a capital spawning ground for bass.

There is one class of poacher which he finds almost impossible to properly watch and that is the frog catcher. He is out in the creeks and marshes almost every night from May till fall sometimes with a jack-light and then again with a reflector, and it is said, that when no one is near he will not scruple to kill maskinongé and hide them on shore until he can ship them to the United States with his frogs.

SIMCOE DISTRICT.

Overseer Wm. McDermot is pleased to state that the fishery laws have been more strictly observed this season than ever before since he was an officer. The fact that he has not a single conviction to report speaks well for the better observance of the different regulations. The visit of the Dominion Police a couple of years ago had a salutary effect and he would like to receive another such visit from them. The mill-owners evince a commendable spirit in observing the laws respecting saw-dust and fish-ways and they now have a complete chain of fish-passes on the Nottawasaga and Boyne Rivers and their ributaries. All kinds of fish seem as plentiful as ever. This is specially noticed in the increase of speckled trout in small streams, and that of perch and catfish in the Holland River.

LAKE SCUGOG DIVISION.

Overseer A. Bradshaw reports a large catch of maskinongé and bass, (nearly 200,000 lbs.), which he considers less than that of 1895. The low water prevailing during the summer months, prevented trolling over the weedy beds. The law was fairly well observed, the only two violators who came before him were duly fined and reported to the department at the time. A good fish-way is urgently required at Lindsay's dam as the old one is useless. The figures and other information given by him are gathered from fishermen, dealers, farmers residing on water fronts as well as based upon his own personal observation.

WELLINGTON COUNTY AND VICINITY.

Overseer D. Coleman has charge of parts of Rivers Credit and Nottawasaga and their tributaries. The former crosses the Township of Caledon and the latter the Township of Mono. The country through which these streams flow is mostly cleared

up, with the exception of the lands in the immediate vicinity of the banks which are often steep and otherwise unfit for cultivation. The beds of the streams are mostly gravelly, their banks skirted with bushes, and logs or fallen trees strewn here and there, all affording excellent cover and protection to brook or speckled trout which are the principal species of these waters. Until quite recently no attention was ever paid to trout protection. They were fished for at all times of the year with every device that the ingenuity of the fisherman could suggest. Sections of the streams once noted resorts for this game fish would soon become depleted. It is not many years ago that parties were known to visit these beautiful natural spawning grounds and capture trout by the pailful during their spawning time. However a better state of affairs is now appearing; fishing out of season is stopped, illegal appliances are strictly prohibited, and altogether such protection is given to trout that a marked increase is noticeable which he estimates at fifty per cent. A remarkable interest is now taken in the propagation and protection of speckled trout throughout this district. Two private hatcheries have been established and are doing a lucrative business, and often the ponds and sections of streams are preserved and protected by the owners of such establishments, thus adding protection to the fish. He reports against giving permits to capture trout out of season for stocking purposes as immense numbers of young trout are thus transplanted to private ponds. He would like to see the close season begin on the 1st instead of the 15th September.

ONT

RETURN of the Number and Value of Vessels, Boats and Fishing Material, and Number Ontario, for

	FISHING MATERIAL.											
!	Tugs or Vessels.				Boats.			Gill-Nets.			Pound- Nets.	
! DISTRICTS.						-					,	
	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Number.	Fathoms.	Value.	Number.	Value.
Lake of the Woods.			\$			\$				\$		
Rainy, River District	11	714	17050	38	81	8760	151	151	24000	1620	127	3013
Lake Superior. 2 Inland Waters, Thunder Bay District— Whitefish, Arrow, Lac des Mille Lacs, Northern Light, and other lakes. 3 Port Arthur. 4 Nepigon 5 Rossport. 6 Jackfish 7 Port Caldwell. 8 Peninsula Harbour. 9 Caribou Island 0 Michipicoten Island 1 Otter Head. 2 Pilot Harbour. 3 Dog River. 4 Michipicoten River. 5 Little Gros Cap. 6 Indian Harbour. 7 Gargantua. 8 Lizard Islands. 9 Point Mamaise 0 Batchewana. 1 Goulais Bay. 2 Gros Cap. 1 Gros Cap.	2	320	8500 1600 2700 17000	27	5 8 1 .:1 4 4 4 4 3 4 2 3 3 2 5 7	2100 1600 1000 1450 175 200 900 900 500 300 500 200 1000 250 500 300 350 —————————————————————————	40 16 10 16 2 8 8 8 8 6 6 4 4 6 10 14 14 188	250 49 70 42 63 49 35 35 63 21 29	16000 7000 4700 6500 900 2200 11000 12000 12000 1000 10000 6000 5000 5000 9000 3500 181800	3100 1750 1175 1650 250 1300 350 900 1200 1200 1200 1000 1000 1000 6000 60	5 5 5	10 12 10 3
Totals	11	484	29800	00	94	13820	108	1940	101000	200(0		107

ARIO.

of Men employed, &c., with the Kinds and Quantities of Fish in the Province of the Year 1896.

Kinds of Fish.													
Herring, fresh, lbs.	Whitefish, brls.	Whitefish, lbs.	Trout, lbs.	Trout, brls.	Pickerel, lbs.	Pike, Ibs.	Maskinongé, lbs.	Sturgeon, lts.	Catfish, lbs.	Mixed and coarse fish, lbs.	Caviare, Ibs.	Bladders, lbs.	VALUE.
													\$ ets.
	• • • •	552860	75490		372215	66180	1390	849480	29280	84580	53020	1050	143,110 35
11000 2500 2530	150 25 95 11 6	26000 220000 42000 87500 9000 27000 13700 10000 5500 9000 28000 10700 66900 19300 39000 99400 17900 8000 10000	18000 235000 30000 93000 11200 51000 117800 117800 20000 21400 14500 24200 201500 18700 17600 10000 8000	315 110 160 20 8000 38 151 60 26		7000		22000 1200 3970 2000 2700 400		2000			4,885 00 47,635 00 7,977 00 19,399 10 2,150 00 15,440 00 2,903 00 13,290 00 2,720 00 4,380 00 2,766 00 9,766 00 4,724 00 5,921 00 29,602 00 3,118 00 3,192 00 1,725 00 1,600 00
16030	287	764500	1176900	1850	31200	7000		36870		2000			

RETURN of the Number and Value of Tugs and Boats, &c., and the Quantity

	Fishing									
DISTRICTS.		Tugs	or Vessels	Boats.						
Number.	Number.	Tonnage.	Value,	Men.	Number.	Value,	Men.			
LAKE HURON DIVISION. North Channel, Manitoulin Island and vicinity.			\$			\$				
1 Duck Islands. 2 Green Island 3 Burnt Island 4 Misery Bay 5 Providence Bay 6 Michael's Bay 7 South Bay Mouth 8 Killarney 9 Round Island. 10 Wickwimikong., 11 Fitzwilliam Island. 12 Squaw and Lonely Islands 13 Beaverstown 14 Pointe aux Grondines. 15 Black Point 16 Bad and French Rivers. 17 Bustard Islands.	2	22	2000 5000 2000 13000 4000	6 6 20 9	6 5 1 1 9 9 10 32 13 17 2 24 2 2 2 5 16	1200 1000 150 150 500 500 2300 650 000 300 4030 200 100 200 500 300 4030 200 500	12 10 2 2 18 18 20 64 26 34 4 48 4 4 4 10 32			
Totals	. 9	188	26000	53	156	17230	312			

and Value of Fish, &c., in the Province of Ontario-Continued.

MATERIA	AL,					Kini	os of Fi	SH.				Stationers was
Gill-N	Vets.		ound lets.							se fish,	77	Particular Commission State Street State Commission
Fathoms.	Value,	Number.	Value.	Herring, lbs.	Whitefish, lbs.	Trout, lbs.	Pickerel, lbs.	Pike, 1bs.	Sturgeon, lbs.	Mixed and coarse lbs.	VALUE.	Number
	\$		\$				•				\$ ets.	
25000 15000 12000 25000 9000 15000 20000 4000 81900 2000 6500 60000	4000 1000 1640 500 3500 6000 2000 500 20020 200 200 200 550 3000	5 2	2000	12800 20000 50000 200 14700 4600 12500 46000	55200 6500 4000 1200 227000 56530 40000 8000 252000 252000 4700 246000	155730 87000 240000 8850 3200 217270 127000 15236 30000 12000 343450 960 2000 -12000 235000	500	4500 50 1870 500 8000		1250 1600 2000 2000 2000	6,156 00 6,264 00 1,840 00 54,525 00 894 60 480 00 2,100 00 1,751 00	111111111111111111111111111111111111111
388400	45310	16	4350	160800	923430	1556496	212140	14920	33380	8850		
				4824	73874	155650	10607	597	2003	177	247,731 60	

RETURN of the Number of Tugs, Vessels and Boats, and the Quantity

						Fish	ing M	ATER	IAL.			
		Т	ugs o	or Vess	els.		Boats.		Gill-N	Nets.		oop-
	Districts.				. 9	r						
Number.		Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.
	Georgian Bay Division.			\$			\$			\$		\$
2	Byng Inlet	1	15 12	2500 3500	5	6 5	1200 800	15 12	40000 21000	7500 5000		
	Copperhead and Umbrella Islands	1	20	2500	6	11	2000	12		16000		
	Midland and Penetanguishene Victoria Harbour Waubashene. Nottawasaga Bay, including Collingwood	1	8 7	1000 700	3 4	17 15 20	1800 1500 2300	40 45 45	22000 20000 40000	3600 3000 6000	13 4	200
9	and vicinity Meaford Owen Sound Bay and vicinity	6 3	232 48	25000 9500	48 15	21 24	3150 375 1000	57 14 32	48000	23400 4800 3820		
1	Colpoy's Bay to Cabot's Head	5	110	22000	26	54	3780		124000	8800		
	Totals	19	452	66700	113	185	18505	412	620650	85920	23	460

and Value of Fish, &c., Province of Ontario, 1896—Continued.

				K	INDS O	F Fish.							
Whitefish, brls.	Whitefish, lbs.	Trout, lbs.	Trout, brls.	Herring, salted, brls.	Herring, fresh, lbs.	Bass, lbs.	Pickerel, Ibs.	Pike, lbs.	Sturgeon, lbs.	Catrish, 1bs.	Mixed and coarse fish, lbs.	VALUE.	Number
												\$ c	ts.
	60000 50000	90000 120000				500	7000 10000	4000	3000			14,150 16,870	
20 50 20	30000 40000 35050 60000 10500	20000 27000 38000] 10000 15000	20 30 95 	25 100 910 50 70			25000 52000 120000 101600	2000 2000 16000 20700	10000	8000 40000 22000	10000 14300		00 4 00 8 00 6
10	234350 2000 2500 30350	991630 117800 125900 365670	20	35 65	77800 8700 7000		60800	3860	41600		1200	126,158 11,940 13,071 39,967	00 10
100	554750	1921000	175	1255	93500	1200	377400	48560	56900	70000	26500		
1000	44380	192100	1750	5648	2805	72	18870	1942	3414	1400	530	273,910	90

RETURN of the Number of Tugs, Vessels and Boats, and the Quantity and Value of Fish, &c., Province of Ontario, 1896—Continued.

LAKE HURON (Proper)—Continued.

		Number.		H004700			H004.
RES IING.	sand arfs.	·9nlsV	%	200	500 4400 7900	12800	
IXTURES FISHING.	Piers and Wharfs.	Number.		62 : : : :	222	31	
OTHER FIXTURES USED IN FISHING	Freezers and Icehouses.	·ən[&A	00	7000	700 27800 5700	34200	
O	Fre	Number.			4 70 60	42	
	op- ts.	Value.	€€		460	460	300
	Hoop- Nets.	Number.			. 23	23	100
	Pound- Nets-	Value.	€	300 2050 3680	6030	10380	525
	Po'N	Number.		22	36	52	.4 4
		·ənlæV	6 9	865	970	970	750 2220 850 1300 5120
	Seines.	Esthoms.		1300	1405	1405	1200 1920 1500 900
		Number.		13 : : : : : : : : : : : : : : : : : : :	15	15	12 17 27 18 18
ATERIAL.	ets.	Value.	₩	15150 2400 8500 1360	27410 85920 45310	158640	100
Fishing Material.	Gill-Nets.	Kathoms.		Angling and trolling. 3 450 7 18000 3 90 21 48000 17 1145 36 18100 25 1215 25	197100 620650 388400	1206150	3000
FI		Men.		87 7 21 36 25	176 412 312	006	11 60 150 70 291
	Boats.	Value.	60	3500 sling ad 450 900 1145 1215	7210 18505 17230	42945	430 1075 200 410 2115
		Number.		27 - 27 - 27 - 27 - 27 - 27 - 27 - 27 -	91 185 156	432	114 31 20 17 17
		Men.		18	62 113 53	228	4 8 5
	Tugs or Vessels.	Value,	%	15500 1500 8500 2000	27500 66700 26000	120200	150
	gs or	Tonnage.		. 25.20	215 452 188	855	13 10
	Tr	Number.		<u> </u>	0100	888	1 1 6
	DISTRICTS.			1 Cape Hurd to Southampton 2 Saugean 3 Port Elgin to Kincardine 4 Port Albert to Goderich 5 Goderich to Blue Point. 6 Blue Point to Point Edward.	Totals. Totals for Georgian Bay. do North Channel	Grand Totals for whole Lake Huron.	Lake St. Clair Division. 1 River St. Clair. 2 Lake St. Clair, including Mitchell's Bay 3 Thames River. 4 Detroit River. Totals.
		Number,		128473 08HT0H			H264

* 8 Dip-nets, \$20.

RETURN of the Number of Tugs, Vessels and Boats, and the Quantity and Value of Fish, &c., Province of Ontario, 1896—Continued.

LAKE HURON (Proper)-Continued.

	Number.	<u> </u>			H 63 65 4		
	VALUE.	\$ cts, 70,040 00 1,500 00 8,047 00 35,543 00 14,681 80 28,821 80	158,633 60 273,910 90 247,731 60	680,276 10	10,444 50 15,770 60 10,745 60 5,047 06		42,007 76
	Mixed and coarse fish,	15000 46000 8300 20480	89780 26500 8850	125130	16400 198000 147230 32128	393758	7875
	Catfish, Ibs.		70000	20000	29600 4500	34100	685
	Perch, Ibs.	25000 75000 1210 730	101940	101940	7240 83400	90640	2719
	Fels, lbs.	150 200	400	400	: : : :	:	
	Sturgeon, lbs.	1250 36900 129210	167360 56900 33380	257640	38880 51200 1000 600	91680	5501
	Maskinongé, lbs.			:	2220	2920	175
FISH.	Pike, lbs.	2000	1	64690	35400 13800 3050	52250	2090
KINDS OF FISH	Біскете ј, lbs.	2000 6000 46610 340830	395440 377400 212140	984980	130750 54050 138200 13870	336870	16844
H	Bass, Ibs.	4000	32030	33230	400 11865 2450 550	15265	916
	Trout, lbs.	468200 15000 60000 288400 65475 4600	901675 1921000 1556496	4379171	4150	4150	415
	Whitefish, lbs.	130000 3500 8500 19020 7500	168520 *554750 923430	1646700	2350 7200	53550	4284
	Herring, fresh, lbs.	20000 25000 62050 63380	182430 93500 160800	436730	13400	16900	202
	Herring, salted, brls.	2160	2300	3555		:	:
	Trout, bris.	250	250	425		:	:
	Districts,	1 Cape Hurd to Southampton. 2 Saugeen 3 Port Eigen to Kincardine 4 Port Albert to Goderich 5 Goderich to Blue Point 6 Blue Point to Point Edward.	Totals for Georgian Bay. do North Channel.	Grand Totals for Lake Huron	1 River St. Clair 2 Lake St. Clair 3 Thames Bay 4 Detroit River	Totals	Values
	Number.	H0004700			1004		

NOTE.—In No. 8, add 100 brls. of salted whitefish.

RETURN of the Number and Value of Tugs and Boats, &c., and the Quantity

							Fish	ING	MATER	IAL.					
	Districts.	Tu	gs or	Vessel	ls.]	Boats.		Gill-N	ets.	-	Seine	s.		and- ets.
Number.		Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Fathoms.	Value.	Number.	Value.
	- Lake Erie.			\$			\$			\$			\$		-\$
2 3 4 5 6 7 8 9 10 11 12 13 14	Pelee Island. County of Essex. County of Kent. County of Elgin. Clear Creek. Port Rowan. Normandale. Port Dover Nanticooke. Cayuga to Moulton Bay,including Grand River. Low Banks Port Colborne. Ridgeway. Fort Erie. Welland	2	32	4500	35 10 12 	9 52 40 36 6 17 11 6 4 18 6 6 7 18	1000 4700 3860 3560 400 445 390 2375 270 1080 60 300 500 900	18 68 65 47 13 64 25 12 10 30 6 6 18 26	1400 4800 5000 600 9000 2000 6000 10000	510 630 50 2500 300 600 1200	16			3	145
	Totals	21	425	53400	80	236	19840	408	60250	8740	31	4150	2025	191	7608
	Values \$														

and Value of Fish, &c., in the Province of Ontario—Continued.

					ISH.	s of F	KIND				
VALUE.	Caviare, lbs.	Mixed and coarse fish, lbs.	Catfish, Ibs.	Perch, lbs.	Sturgeon, lbs.	Maskinongé, lbs.	Pike, lbs.	Pickerel, lbs.	Bass, lbs.	Whitefish, Ibs.	Herring, fresh, lbs.
\$ cts.		,						Þ	_		
8,045 10 46,568 60 89,331 10 49,834 10 7,411 35 8,039 20 3,810 40 13,002 00 3,059 48	735 1600 2500 250	42550 520600 42790 32390 850 98840 3640 22600	7710 730 1900 420 1700 1510 50	3480 155000 59520 47700 2480 80820 41490 39730 1180	24100 70200 30200 33070 9020 	700	115100 40500 21170 1460 1200 3240	18720 60500 130790 418390 22125 39120 15900 137040 6110	6000 13600 2040 200 7800 630 1300 500	9170 30220 23970 42960 11720 2000 5840	115330 701200 2393400 701130 87150 9700 54810 99210 33926
2,422 10 618 00 1,000 00 2,920 00 4,540 00 590 00		13000 5000 5000 3000 10000 5000		8520 4000 8000 10000 12000	8000 20000	500	3000	13200 4000 6000 20000 50000 5000	2640 800 1000 3000 4000	420	30150 5000 10000 30000 4000
	5085	805260	14020	473920	217910	1530	189670	946895	43510	126300	4275006
241,191 43	1525	16105	280	14218	13075	92	7587	47345	2611	10104	128250

RETURN of the Number and Value of Tugs and Boats, &c., and the Quantity

						Fis	HING	MATE	RIAL.					
Districts.	Tı	ngs or	Vesse	ls.		Boats.		Gill-1	Nets.		Seine	es.		oop- lets.
Number.	Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Fathoms.	Value.	Nun.ber.	Value.
Lake Ontario, including Niagara River and other tributaries.			\$			\$			* \$			\$		\$
1 Queenstown 2 Niagara 3 Port Dalhousie 4 Beamsville 5 Burlington Beach 6 Angling and trolling in above	1	8		3	2 7 5 4 15	120 700 500 300 1185	14 10 8	20000 20000 15000	5000					• • • • •
districts 7 Counties of Halton and Peel 8 County of York. 9 County of Ontario. 10 County of Northumberland and			• • • • •		15 8 6	2300 900 225	11	9000						
Durham	3		9000	• •	17 35 65 48 50 25	850 770 2200 1310 900 650	50 200 78 87	Ang 19800	ling an	d t	rollii 150	150	.86	375 625 820 2050 920 360
Totals \$	4	183	10800	15	302	12910	599	255100	32760	4	250	230	259	5150

In No. 1 add 3 trap-machines, \$1,000.

and Value of Fish, &c., in the Province of Ontario-Continued.

				Kin	DS OF	Fish.									
Herring, lbs.	Whitefish, lbs.	Trout, lbs.	Bass, lbs.	Pickerel, lbs.	Pike, lbs.	Maskinongé, lbs.	Sturgeon, Ibs.	Eels, lbs.	Perch, lbs.	Catfish, Ibs.	Mixed and coarse fish, lbs.		VALUE		Number.
ا د	\$. 0	1	1	U	6	le	6	\\ \(\zeta_i \)		h		\$	cts.	
40000 36000 175000 170000 300000	4000 4000 3000 8000	6600 10000 12000 15000	3000	5000 50000 5000 12000	5000 1000 6000		26000 1000 2000 5000	5000	4000 10000 10000 15000 25000		6000 20000 10000 10000 10000		1,870 7,020 7,480 7,910 13,170	00 00 00 00	1 2 3 4 5
525000 21550 6200	1200 9150 1200	2500 6200 100	24000 1200	86200	60000 1100 600 550			300	95000 600 400	1200	50000 8800 1700	Barrer .	11,000 17,272 2,198 360	00	8
30050 170950 26600	75000 10600 31200 12500	4200 3500 75000 9700	500 127000 4500 3200 1800	30000 4800 16875 55600 3000	40000 35000 10009 87860 82900 82500	$114500 \\ 2000$	1000 3000 3600 1000	2000 12100 5000 5535 17600 5000	10600 9000 35500 30000	129800	10000 113600 185000 113900 369600 55500	7	3,351 *21,116 19,881 16,864 23,032 6,988	6 00 L 50 L 95 2 00	12 13 14 15
1505350 45161	170350			$\frac{268475}{13424}$		$\frac{117720}{7063}$	42600 2556	52535 3152		$\frac{131000}{2620}$			159,510	95	

^{*} Partly Estimated.

100.

RETURN of the Number and Value of Tugs and Boats, &c., and the Quantity

						Fis	shing l	MATER	IAL.			
	Districts.	Tu	gs or	Vess	els.		Boats.		Gill-	Nets.	Hoop-	Nets.
Number.		Number.	Tonnage.	Value.	Men.	Number.	Value.	Men.	Fathoms.	Value.	Number.	Value.
	Frontenac, Leeds and Lanark Counties.			\$			\$			\$	And the second	\$
2 3	Frontenac County, Howe Island Fronting on Leeds County, Lakes in Leeds and Lanark,					20 5 105 13	360 77 3750 260	90 5 210 23	2070 1700 40	400 75 *	37 4 5 33	690 85 40 630
	Totals					143	4447	328	3810	485	79	1445
2 3 4 5 6	+St. Lawrence River (from Brock-ville to Lancaster). +Prescott and Carleton Counties. +Renfrew County. +Lake Nipissing. +Parry Sound and Muskoka. +Peterborough, Otonabee and vicinity. +Victoria County and vicinity, including Lake Scugog. +Lakes Simcoe, Couchiching and vicinity, including Severn and Holland Rivers.											

[†] Angling and trolling.

^{*} With set-lines and trolls.

and Value of Fish, &c., in the Province of Ontario-Continued.

					Kinds	of Fish	ſ.						
Herring, fresh, lbs.	Whitefish, lbs.	Trout, lbs.	Bass, lbs.	Pickerel, lbs.	Pike, lbs.	Maskinongé, lbs.	Sturgeon, lbs.	Eels, lbs.	Perch, lbs.	Catfish, lbs.	Mixed and coarse fish, lbs.	VALUE.	
		•										\$ cts.	
8100	500	19900	4000 500	500 260	99900 8400		606	30500 850	1300 1600	112530	10700 5470	10,867 60	
3550	1500	3900	59500 7400	$\frac{1000}{1000}$	139400 12000	5350	17000	35400 2150	26500 1100	23000 33100	101000 72300	15,936 00 3,860 50	
11650	2000	23800	71400	2760	259700	5350	17600	68900	30500	168630	189470		
350	160	2380	4284	138	10388	321	1056	4134	915	3373	3789	31,287 50	
	400		1500 18450 1400	600 7700 1700	6000 13100 4500 9000	250 7350	11200 1600 2000	1200 6900 250	500 9400 560	27250	10500 49600 5100 4500	1,344 00 4,818 00 602 80 450 00) ·
2500	3500			27700	12250	3850			3600	3200 2000	27700	6,758 00	
	4000		265000 120000			44700 9 150000		4600 5000	2000	2000	93000 130000	51,226 00 19,100 00	
	31000	73000 15500		17500	4200	22000	2400	200	16000 1000	12000 1000	48000 12600	17,237 00 1,960 00	

RECAPITULATION of the Number of Tugs, Boats, &c., and the Quantity and Value of Fish, &c., and other fixtures employed, in the Province of Ontario, for the Year 1896.

		Whitefish, brl:		282 282 200 200 200 200 200 200 200 200	387
KINDS OF FISH.		Herring, fresh		16030 436730 16900 427306 1505350 11650 25000	6289166 3
KIN	d, bris.	Herring, salted		1.126	3555
	or eux,	Value.	€	6 180 23 460 3555 10 300 79 1445	7535 3555
	Hoop- Nets or Verveux	Number		25 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	37.7
	Pound- Nets.	Value.	Ð	30150 1.0350 523 76050 1.000	433 128805
	P _o	Number.		127 256 101 101 101 101 101 101 101 101 101 10	433
		.anlsV	₩.	2025 2025 230 230 230 230	8345
	Seines.	Fathoms.		1405 970 5520 5120 4150 2025 250 230	11325 8345
ú	92	Number.		: : : : : : : : : : : : : : : : : : :	124
ATERIA	ets.	Value.	00	1620 25975 15860 1000 8740 32760 485	228320
FISHING MATERIAL	Gill-Nets.	Fathoms.		24000 181800 1806150 3000 265100 3810	1734110 228320
Fis		Men.			
	Boats.	.enlaV	4	88760 18825 2115 2115 19840 12910 4447	86 9674 931900 433 1370 104849, 2865
		Number.		8432 4322 822 823 823 823 823 823 823 823 823	: 370
	200	Men.		38 655 74 15 15 15 15	
	Tugs or Vessels.	Value.	€€	17050 229800 120200 650 10800	931900
	gs or	Tonnage.		417 484 805 484 113 113 183 183 183 183	
	Tu	Number.		1188124	: 8
	DISTRICTS.			1 Lake of the Woods. 2 Lake Superior 3 Lake Huron, including Georgian Bay 4 Lake St. Clair 5 Lake Dutario 6 Lake Ontario. 7 Frontenac, Leeds and Lanark. 8 St. Lawrence River, Brockville to Lancaster. 9 Prescott and Carleton Counties. 10 Renfrew County 11 Take Nipissing 12 Parry Sound and Muskoka. 13 *Peterborough, Otonabee and vicinity, including Lake Suncoe, Couchiching and vicinity, including Severn and Holland Rivers	16 * Wellington County and Vicinity

* Angling and trolling.

RECAPITULATION of the Number of Tugs, Boats, &c., and the Quantity and Value of Fish, &c., and other fixtures employed, in the Province of Ontario, for the Year 1896—Continued.

Number.	trs. 15 1 15 1 15 1 15 1 1
VALUE.	\$ cts. \$ cts. \$ cts. \$ 53020 1050 143,111 15 1 204,793 10 2 204,793 10 2 40,007 76 4 40,007 76 4 40,007 76 70 7 1,344 00 8 1,344 00 8 4,818 00 9 602 80 10 602 80 10 602 80 10 13,48 00 11 13,40 00 11 13,40 00 11 13,40 00 11 13,40 00 11 13,40 00 11 13,40 00 14 13,40 00 14 13,40 00 14 13,40 00 14 13,40 00 14 13,40 00 14 14,50 00 166 14,50 00 166 15,50 00 166 16,50 00 166 17,50 00 166 18,50
Bladders, lbs.	1050
Cariare, Ibs.	
Mixed and coarse fish,	84580 2000 125130 383753 802260 964100 10500 4500 5100 120000 12000 12000 12000
Catfish, Ibs.	29280 34100 14020 14020 1311000 168630 27250 27250 3200 2000 10000
Perch, lbs.	29280 101340 70000 90640 34100 473920 14020 381100 131000 500 27250 560 27250 560 2000 16000 12000 1111160 492489
Base, Ibe.	400 33230 15285 15285 170200 8900 71400 6500 18450 6500 120000 2000 120000 2000 120000 2000 120000 8985 804155
Eels, lbs.	400 68900 68900 68900 68900 250 5000 200
Sturgeon, lbs.	849480 36870 91880 91880 91880 91890 17000 17000 180
Maskinongé, lbs.	80 1390 000 500 1530 10 117720 10 117720 10 10 17720 10 10 17720 10 10 17720 10 10 17720 10 10 10 10 10 10 10 10 10 10 10 10 10 1
Ъјке, јъз.	66180 1390 7000 7000 64690 23250 189670 1530 412510 117720 259700 5850 18100 7350 4500 12250 3850 1250 22000 4101050 759860
Pickerel, lbs.	372215 31200 34180 348450 946895 288475 2760 7700 17500 17500
Trout, bris.	1850 1850 1875
Trout, lbs.	75490 1850 4879171 425 4150 114800 23850 59500 73000 75000
Whitefish, Ibs.	552860 1646700 5552860 126300 170350 2000 4000 3355160
Districts.	1 Lake of the Woods 2 Lake Superior 4 Lake Huron, including Georgian Bay 4 Lake Brie 5 Lake Brie 6 Lake Ontane. 7 Frontenac, Leeds and Lanark. 8 St. Lawrence River, Brockville to Lancaster 9 Prescott and Carleton Counties 10 Renfrew County 11 Lake Nipissing 12 Parry Sound and Muskoka. 13 Peterborough, Otomabee and vicinity, 14 Victoria County and vicinity, including 15 Lake Suncoe, Couchiching and vicinity, including Severn and Holland Rivers. 16 Wellington County and vicinity.
	Whitefish, Ibs. Trout, brls. Trout, brls. Pickerel, Ibs. Maskinongé, Ibs. Bass, Ibs. Bass, Ibs. Wized and coarse fish, Ibs. Caviare, Ibs.

RECAPITULATION

Of the Yield and Value of the Fisheries of the Province of Ontario, for the Year 1896.

Kinds of Fish.		Quantity.	Price.	Value.
6	 1		\$ ets.	\$ cts.
Whitefish	Los	$\begin{array}{c} 387 \\ 3,355,160 \\ 5,975,661 \\ 2,275 \\ 3,555 \\ 6,289,166 \\ 139,985 \\ 1,550,980 \\ 58,105 \\ 1,050 \\ 492,489 \\ 759,360 \\ 804,155 \\ 2,998,595 \\ 1,101,050 \\ 2,945,298 \\ 1,111,160 \end{array}$	10 00 0 08 0 10 10 00 4 50 0 03 0 06 0 06 0 30 0 80 0 02 0 06 0 06 0 06 0 06 0 06 0 00 0 00	3,870 00 268,412 86 597,566 10 22,750 00 15,997 50 188,674 99 8,399 10 91,858 86 17,431 50 840 00 9,849 60 45,561 60 48,249 30 149,929 00 58,905 90 33,334 80
Total for 1896				1,605,673 7 1,584,473 7
Increase	 			21,200 0

STATEMENT

Showing the Number and Value of Fishing Tugs, Boats, Nets and other Fishing Material, used in Ontario, in 1896.

Articles.	Value.
	\$
86 fishing tugs or vessels (2,674 tonnage, 433 men). 1,370 do boats (2,865 men) 1,734,110 fathoms of gill-nets. 124 seines; 11,325 fathoms 433 pound-nets. 377 hoop-nets. night-lines.	231,900 104,842 228,320 8,345 128,805 7,535 1,530
230 freezers and ice-houses	711,277 96,030 31,225
Total value of material.	838,532

APPENDIX No. 8.

MANITOBA.

REPORT ON THE FISHERIES OF MANITOBA, FOR THE YEAR 1896, BY INSPECTOR R. L. TUPPER.

Selkirk, 1st January, 1897.

Hon. L. H. DAVIES,
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to submit to you my annual report for the year 1896,

regarding the fisheries of the Province of Manitoba.

I am glad to be able to state that although the season has been more than ordinarily stormy, no wreck of any of the steamers, tugs or sailing boats engaged in the fisheries has occurred and no loss of life has taken place. Only ten commercial licenses were issued. The four fishing companies taking out licenses for 10,000 fathoms each; five owners of sail-boats for 1,400 each, and one small tug for 1,000 fathoms.

Commercial fishing commenced between the 1st and 5th of June, all the fishermen working from the harbours of Selkirk and Pony Islands, off the mouth of the Saskatchewan in the north end of the lake. Nets were set most of the time about midway, between Selkirk Island and the outlet of the lake, the entrance to the About the full complement of nets were used by each company as Nelson River. allowed. Nets in every case were strictly taken up Saturday and not reset until the following Monday. Fishing was very poor during the month of June owing to constant calm weather when the fish swim above the nets. The fishing improved in July when breezy weather caused a change, some of the hauls then were enormous, one firm lifting with less than 9,000 fathoms, 30,000 whitefish. average $3\frac{1}{2}$ lbs., the immense quantity of 105,000 lbs. was taken in one haul. The latter part of July the weather came stormy and continued more or less so during August, and an unusual loss occurred through inability to lift the nets regularly. A very large business had been done shipping fish fresh to the eastern markets, and it looked as if the complement of fish to fill the freezers to hold for sale during the winter and lenten season trade would not be had. The department was asked to extend the commercial fishing for this year until the 5th of October, the commencement of the domestic fishing close season. This was done, and on the 2nd and 3rd of September fishermen moved south to Reindeer and Swampy (or Berens) Islands, the weather continued stormy and was very cold. The companies could only use the tugs and fished during September with an average of 4,500 fathoms only. Owing to the large shipments of fresh fish made weekly during the summer, as I have already reported to you when operations ceased and the companies started for Selkirk to lay up their boats for the winter, they had about six hundred thousand pounds less fish in the freezers than they had at the same time in 1895, yet more fish were taken and marketed than during any year since 1893.

This year there have been added to the vessels engaged in the fisheries, one cold storage and passenger steamer costing \$20,500, one fishing tug costing \$5,100, and one cold storage and passenger steamer enlarged 40 feet at a cost of \$8,000, also an

ammonia freezer at a cost of about \$30,000.

The experience gained in 1893 (I was only appointed inspector late in that year) was that despite the cutting down of the number of fathoms of nets allowed each company from 20,000 fathoms to 10,000 fathoms, which at first was thought a grievance—they had overstocked their market—and consequently, the fish were to a very great extent sold at a loss. The catch that year was 3,873,281 lbs. The companies in 1894 agreed to restrict the catch in order not to flood the market and they quit fishing early on obtaining 2,370,053 lbs. I had earnestly advocated shipping fresh fish in summer as had been proven possible by shipment of fresh fish I made to Commander Wakeham from the north end of Lake Winnipeg to Chicago, to the World's Fair. So in 1895 two companies commenced fishing in that manner and the catch was raised that year (1895) to 2,659,609, the extra 259,556 lbs. representing the shipments made of fresh fish. The same amount going into cold storage as the previous year. This year all the companies have gone into the shipment of fresh fish with satisfactory results. The returns are quick. Interest on outlay, insurance and storage is avoided. And if in the fluctuations of the market the price is not suitable for shipment when a shipment arrives from the lake it can be placed in the freezers and held. It is a curious fact that our market for whitefish is almost entirely in the cities situated between Montreal and Chicago, of which the great whitefish lake, Erie, is the centre, and where our fish come in competition with the fish of Lakes Huron, Michigan, Erie, and out on their own ground. I cannot understand why our market has not been sought south and south-west of us in the Prairie country where our distance of haul would be less and where whitefish are not caught. Such markets as St. Paul, Minneapolis, Sionx City, Omaha, Kansas City, and dozens of other large intervening towns should furnish us with a profitable market for all the fish we have to spare.

Our output of fish would increase largely, I am convinced, had we a market for them. As it is, full as many are caught as can profitably be sold at present, and had it not been for the summer shipments of fresh fish, which left so much less than usual in the freezers serious losses would have occurred this season. Naturally as settlement about the lakes increases more fishing is done. And now the railway is in reach of the fish of Winnipegoosis—will most probably be at the lake early next year, a large increase in the output of whitefish, pickerel and pike will come from there. It will add no less than 2,011 square miles in that lake alone of available water which is known to be full of fish and where practically no fishing has hitherto

been done.

In the northern part of Lake Winnipeg, where not one settler lives to disturb the waters and where the one or two small bands of Indians catch but a few fish near their homes for their own use, the commercial fishermen do not fish one-tenth of the waters or anything like it. The total number of fathoms of nets licensed is 47,600 and the season commences about June 5 and ends the 1st of September, take off 20 days lost lifting nets Saturdays and putting down Mondays and the fishing is two months ten days, the other nine months twenty days of the year, there is absolutely no fishing, and no market for more than now caught.

The number of square miles in the north end of the lake is 6,000 fully. The part north of Manitoba boundary in Keewatin being alone 4,588 square miles. Compare this with the time fishing and number of fathoms of net in Georgian Bay.

Georgian Bay, fathoms of gill-net licensed, 581,250. Time engaged fishing about five months.

Northern Lake Winnipeg, fathoms of gill-net licensed, 47,600. Time engaged

fishing, two months, ten days.

In the 1894 report, Capt. Dann reports poaching having been extensively carried on in Georgian Bay. Here there was absolutely none, so there must have been many more nets in Georgian Bay than the above shows. With all these nets the catch of whitefish and trout combined was but 2,955,600 lbs. in 1894.

This season's catch of whitefish alone in the north part of Lake Winnipeg set

apart for commercial fishing was 3,270,320 lbs.

It must be remembered the season must always be short in northern Lake Winnipeg, it being in the same latitude as the Labrador coast, over 200 miles

north of the most northern point of Newfoundland. The ice never going out

before the 1st of June and the harbours are frezen up in October as a rule,

The closing of the mouths of rivers for fishing, especially in the north end of the lake, at the little Saskatchewan where the whitefish resort in such numbers to spawn has proved a most wise measure. A great outcry was made at the time against the order and at the same time reducing the number of yards of net allowed each company from 20,000 fathoms to 10,000 fathoms—the following results (and it is only by results that the value of regulations can be proven—not by guessing) show:—

1892—Commercial fishing—Unrestricted fishing, mouth of Little Saskatchewan and other rivers, and Sundays up to the 5th of October:—

Number of fathoms of net	51,000
Pound nets	2
Catch	3,058,798 lbs.

1896—Commercial fishing—No fishing within five miles of the mouth of rivers.

No fishing Sunday. Companies restricted to 10,000 fathoms each. No pound nets:—

Numbers of fathoms	of nets	41,600
Catch	123000100000000000000000000000000000000	3,270,320 lbs.

or 212,522 lbs, more than in 1892! Can there be a better proof of the wisdom of the department, not only for the preservation of the fisheries, but for the immediate benefit of the fishermen themselves.

"An ounce of prevention is worth a pound of cure," and the results here are so plain that he who runs may read. I am convinced more fishing might safely be allowed in the north end of the lake, but certainly would not advise its extension until a market could be found for more than what is taken now. It is not now a question of the quantity to be safely taken without depletion, it is a question of only catching what can profitably be marketed.

STURGEON.

A little more attention was paid to fishing for sturgeon this year, with the result of a larger catch for market. The lack of ice-houses or freezers near the fishing grounds for these fish has kept operations back as the fish seemed to have spawned out before the fishing commenced. There were only 7 kegs of caviare made from the entire catch. While the flesh of our sturgeon is held to be the finest taken anywhere, the caviare contains too much fatty matter, even if it could be taken just before the spawning commences. I am compelled to believe there are not so many of these fish in Lake Winnipeg as have been supposed, strange to say that they inhabit only one side of the lake (the east side), and are never found on the west shore with one exception. At Fisher river the Indians caught some ascending the river to spawn this past spring, the first ever seen here by them. There are none of these fish in Lakes Manitoba or Winnipegoosis, though there is nothing to prevent their going up the Little Saskatchewan River. On the great Saskatchewan River, however, there are in Cedar, Cross, Moose, Indian Pear, Pine Island and other lakes and all the streams, immense quantities of sturgeon, as also in the two Playgreen lakes and all the lakes down the Nelson River to salt water.

I have been told that in tide water at the mouth of the Nelson and as far up as they can go there are very large sturgeon often weighing 400 lbs. each. Sturgeon fishing for commercial purposes with gill-nets may safely be allowed as well as in

the other lakes mentioned as they are now going to waste.

DOMESTIC FISHING.

Domestic fishing has been carried on to a greater extent than formerly and the year has been fairly successful. Lake Winnipeg is two feet higher than it has been the past few years, and I attribute in a great measure the increased catch to this.

Owing to higher water the fish have been nearer shore, and as the fishing is in small boats and canoes, which could not go out far to set, they have been able to

reach more fish than in the last few years.

L. Schannus, fishery officer at Fort Alexander, says: "A decrease in the catch of whitefish is observed by the Indians and others, the former enjoying the privilege of fishing during close season for their own use. I note a number of small fish were caught this fall, and no doubt they were from the Selkirk hatchery. Local fishermen are not pleased to see the hatchery closed because they had great expectations of this part of the lake being stocked with whitefish."

Pickerel were caught in great quantities through the ice and also in the fall. The increase has to be ascribed to a more vigorous prosecution of the industry. Sturgeon fishing has been carried on at two different points in this district (Broken-

head to Dog Head, east side) and was quite a success.

The close season was strictly observed; no illegal fishing came to my knowledge, as all willingly took license and used the regulation mesh. At Robinson's Mill, at Bad Throat, which was burned last summer, and the water having risen considerably some sawdust found its way into the lake—but prompt measures were taken to stop it. The fish industry is progressing in this district, with the exception of whitefish, and it is the unanimous desire of all the resident fishermen that the hatchery will be in operation next season.

1896.			Pounds.
Whitefish	caugh	t	47,500
Pickerel	do		235,700
Pike .			63,100
Sturgeon	do		110,500
Perch		\$0000 . 100 (6000 N H) 0000 000 40 40 00 00 100 00 40 07 100 00 00 00 00 00 00 00 00 00 00 00 00	6,500
Tulibee			W () () 0 0
		e, caught	
		_	
Value		Courrescous or a prosonas p 16 acoa 6 a acoa a a acoa a	819.934 00
Fathoms	of net		30,300

It will be noticed this overseer and others note a decrease in this district. The cause is found in comparing the overseer's returns with the return for the previous year.

It will be seen that according to the overseer there were 18,450 fewer fathoms of net used in 1896 than in 1895. Yet the number of whitefish caught was only 3,550 lbs, less. I think this is proof that the fish were even more plentiful had they been fished for. Last season, however, pickerel were in great demand, and they were more sought for as is shown by comparing the two years again in the same district.

Catch of pickerel, 1895	197,010 lbs.
1896	235,700 "
Increase	38,690 "
Sturgeon also were sought for to the neglect of whitefish.	
Result, 1895	75,800 lbs.
" 1896	110,500 "
Increase	34,700 "
Total value of all fish, 1895 1896	

Increase value of fish in this district (see Recapitulation), 1896, \$1,442.20, with 18,450 fathoms less net.

Robert Henderson, a very intelligent Indian living at Fort Alexander, writes

as follows:-

"I have lived here fifteen years, the last ten years I lived by fishing. I caught more whitefish this year than before. I commenced fishing for pickerel in November near Catfish Creek, $1\frac{1}{2}$ mile out in the bay. I fished the same ground for pickerel year after year and never caught more than seven or eight stray whitefish on the pickerel ground in a season before this season. This year I caught about 100 small whitefish from $1\frac{1}{2}$ to 2 lbs. weight, all young fish and I think the same age. I am sure these fish are from the Selkirk Hatchery, if they are not I do not see where they came from.

I also received the following from the west shore of the lake from the Icelandic

settlement:-

"HNAUSSA P.O., Oct. 8, 1896.

"We beg to state that last year we got some small whitefish about $1\frac{1}{2}$ lb., and this year we have got a good many whitefish about 2 lbs. These we judge are three years old and have never been seen here before. There can be no doubt they are from the Selkirk Hatchery. None of them were seen here three years ago.

" (Sgd)

- "STEPHEN SIGURDSSON,
- "SIGURDUR SIGURBJORNSSON,
- "ISLEIFUR HELGASON,
- "SIGURDUR G. NOEDAL, P.M."

WEST SHORE OF LAKE WINNIPEG-WILLOW POINT TO DOGREAD.

The overseer for this district has been under suspension, consequently I have no report from him for 1896.

LAKE WINNIPEG-NORTH OF DOGHEAD, EAST AND WEST SIDE.

Wm. McEwan, overseer for this district says: "The laws here are well observed. The fish are more numerous than they have been for a number of years and I attribute this to the fact of the lake freezing up smooth this year. Consequently the fishermen can fish where they could not other years, on account of drift ice." I think the non disturbance for the last few years of the spawning grounds at Little Saskatchewan has also a great effect. I find the fishermen in my district very particular in disposing of their culled fish, cleaning them up and putting them ashore.

There are more fish used for home consumption in this district than any other as there are in the neighbourhood of 200 families of Indians on the shores who live

almost entirely the year round on fish. The catch is as follows:—

WhitefishPickerel	212,800 lbs. 208.800 "
Sturgeon	61,848 "
Mixed fish	660,000 "
Value	\$27,096 40

Of this 45,000 lbs. of sturgeon and the 660,000 lbs. of mixed fish, I estimate for home consumption. The balance for export.

LOWER RED RIVER AND HEAD OF LAKE-WILLOW POINT TO BROKENHEAD.

There is a lot of winter fishing done in this district, principally in the Red River delta and the St. Peter Indian reserve. Principal catch being pike, pickerel, catfish, sturgeon, gold eyes and perch. Only a stray whitefish is caught, the water

being shallow and marshy. The catch this year has been larger than usual. All the fishing is done through the ice in winter with the exception of a few small nets by the Indians during summer for their own use—and then only in the river when 20 yards or so is set to catch a few gold eyes, catfish and an odd pike. No whitefish are caught in this district nor do they come into the Red River to spawn. Wm. Hughes, overseer for this district, reports the law well observed and the catch as follows:—

Pickerel Pike Perch Catfish Mixed and coarse	$164,000 \\ 34,000 \\ 112,000$	66
Value Value 1895		
Increase	\$1,139	50

UPPER RED RIVER.

There is little fishing on the river except with hooks set on night lines, catfish being the largest catch, a good many gold eyes are taken, and a carp, called bass here for a better name.

Five seine nets are used in the river near Winnipeg, the catch being sold in the city each morning as taken from the nets through the previous day, the fish being held in pens on the river bank alive until disposed of. These fish are disposed of cheaply, principally to the foreign element of the city. The catch is as follows:—

Whitefish Sturgeon		
Carp	16,000	6.6
Pickerel	19,000	66
Catfish	18,000	66
Mixed fish 5		
Value	\$1,990	00

LAKE MANITOBA.

Totogan to Long Point.

Daniel Devlin, overseer for this division, says: "In submitting my annual report for the year 1896, I beg to state that I visited all the principal fishing grounds in my district from St. Laurent to Totogan in May, October and November, seeing that the close season was observed, also collecting license fees.

During my tour of inspection I found that the fishery regulations were observed

by the fishermen.

The fishermen, who are using seines, consider that the license fees are too high, as those nets are used only about three months in the summer beginning about the 20th of May to 15th of July, and again from the 1st of September to the 15th of October, and several days of these periods they are prevented working from stormy weather. Owing to the shortness of the fishing season and the \$50.00 price of seine

and \$25 for license and the low price paid for fish they wish me to report to you on this matter that the license may be reduced to \$15.00. The catch for this district for the season of 1896 was:—

	Pounds.
Whitefish	236,340
Pickerel	. 283,990
Pike	. 280,819
Tullibee	8,614
Salt pike	8,500
Mixed and coarse	15,000
Total value	.\$20,147 98
Value—1895	. 12,933 03
-	- 04 + 05
Increase	. 7,214 95

LAKE MANITOBA-WEST SIDE. WHITE MUD TO NARROWS AND SANDY BAY.

Mr. Martineau writes as follows: "I beg to report that at different times during the year, and especially during the close season, I have visited all the fisheries and I am pleased to state that everything was in good order and condition and the fishing regulations strictly attended to, and to show the correctness of this statement I would here mention that even the Indians have given up fall fishing and are keeping the close season, not caring for fishing for the purpose of having hung fish." Mr. Martineau is Indian agent for Lake Manitoba and if other Indian agents would—as Mr. Martineau has done—try and induce the Indians to observe the close season and cease hanging fish in the spawning season it would be better for the Indians and their families in the future. The practice is no longer necessary.

Mr. Martineau further says: "In the past fishing was carried on only in winter, but this year ice-houses and freezers were built and a trial for summer fishing was effected and proved to be successful in so much as after expenses were paid the fishermen had a small profit and altogether the industry has proved of great help to them during the summer months when they could not obtain work elsewhere—and was of benefit to newcomers and settlers in general." The settlers would willingly welcome commercial fishing in the north end of Lake Manitoba where there are no settlers, and from the Narrows southerly where there are settlers kept for domestic fishing. Again Mr. Martineau says: "All the fishermen agree that the close season is too long and that the close season-for whitefish should be say from the 1st day of October to the 10th day of November, which would cover the spawning season of the fish yearly, and they earnestly hope you will support them in such a fair request and urge upon the Minister of Marine and Fisheries the necessity of the change asked for, and they intend to send in a large petition to that effect shortly."

Catch—1896.		Pounds.
Whitefish		400,500
Pickerel		110,050
Pike		219,000
Tullibee		
Mixed and coarse		234,300
	,	
Value		31,788 00
Value-1895.		7.500 00

This great increase in this district is caused solely by the more vigorous prosecution of the fishing owing to the building of the freezer at Westbourne and the summer fishing, which for the first time has been carried on five miles out in the lake, in summer. The allowing 500 yards of net instead of 300 yards makes it possible for three or four men in a large boat to fish profitably.

FAIRFORD, LAKE ST. MARTIN AND LITTLE SASKATCHEWAN.

Mr. Martineau has acted as overseer in this district in addition to his own since the death of the late overseer Mr. Wood, and I would wish here to place on record the great pains and care Mr. Martineau has taken in the fishery work on Lake Manitoba, and I would respectfully suggest that the late Mr. Wood's district be permanently added to that of Mr. Martineau with a temporary guardian at Fairford during the close season for whitefish. The catch in this district was:—

Whitefish	45,000 lbs.
Pickerel	10,000 "
Pike	50,000 "
Tullibee	13,000 "
Coarse and mixed	
Value	

LAKES DAUPHIN AND WINNIPEGOOSIS AND WATER HEN RIVER.

J. H. Adams, overseer, says:—"The catch this year was 462,000 lbs., valued at \$761,750. The quantity sold in Canada and United States was 65:36 per cent of the whole catch. The larger catch this year is principally due to the construction of the Dauphin Railway and the advance of settlement in this district. I have reason to believe that the close seasons were fairly observed. Hereafter with a view to increase the development of our fisheries in this district, I beg to recommend that commercial licenses in the southern half of Lake Winnipegoosis be granted to fishermen." I cannot agree with this officer's recommendation. There are many settlers going in about the southern end of this lake, enough to do all the fishing required there. If a proposition for commercial fishing were entertained it should be at the least restricted to that part of the lake lying north of Birch Island. This lake is practically unfished as yet, and as the railway will in all probability be carried to the lake next year a large amount of fishing may be looked for. It is yet a question as to the number of whitefish in the lake and this can only be found

The lake for a western lake is fairly deep, being deeper than Lake Manitoba, and presumably whitefish are plentiful in the northern part. It is proved they are so in the part south of Birch Island. There can be no question of the value and I might say exhaustless quantities of the spring spawning species of fishes in the lake did I not know the word "exhaustless" never can properly apply to any of our waters. Lake Winnipegoosis is the drainage basin for the Riding, Duck and Porcupine Mountains and sharing with the Carrot River the drainage of Pasquia Hills. Numberless streams run through the valleys and gulches of these mountains and every one of these streams is spawning ground in the spring for millions of pike, pickerel and suckers. Such lakes as Dauphin, Swan and Red Deer also being immense spawning beds. There is, I estimate, a greater area of spawning ground tributary to this lake than all the other lakes of Manitoba twice over, and from the wooded hills and valleys more insect fish food found than in ten times the area of prairie streams. As a consequence the fish named are very numerous and of large size and in the best condition. I have seen no where else such large fat pike and pickerel.

The suckers are to numerous and it is a pity these pests could not be got rid of, although the whitefish are a smaller fish than those of Lake Manitoba, the fishermen are using 6 inch extension measure gill-nets as in a smaller net the suckers gill, and being a strong fish and a great struggler in a net, they break the nets unless they have room to go through. The whitefish are smaller and darker than Lake Winnipeg whitefish and have not the sudden rise back of the head so prominent in those fish. They resemble the fish of Lake Manitoba though in a few brought in I noticed one

both as to colour and shape identical with the Lake Winnipeg fish, and it may be that some of the fish annually going up the Little Saskatchewan go on through Waterhen river to spawn in Winnipegoosis:—

	Lake D	nd Peli can la					011 387 123 150
			ilesve sea Lake Win			ft.	671
Mr.	Adams	reports the c	atch this yea	r as follo	ows:—		
	Picker Pike Perch.	and coarse				37,500 59,000 10,000	lbs. "
	Value "	189% 1895					
		Increase				\$1,607	00

SOUTHERN MANITOBA.

Edmund Crayston, the fishery officer for this district, writes:— "This report includes the catch in Rock, Swan, Louise and Pelican lakes. I think the number of fish is increasing—both in number and size. There has been no wholesale slaughter among them with spears and forks for several years, that is why they are increasing. The close season has been pretty well observed in this section this year. The catch for 1896 was:—

Pike Mixed and coarse fish.	80,000 lbs. 20,000 "
Value	\$3,000 00 20,000 lbs.

There have been some American farmers coming over the border for a days rod and line fishing in these lakes, but as our settlers do not object, they being neighbours, on reference to the department last year regarding it they have been allowed to fish as a courtesy.

In conclusion I beg to say that the utmost care must be taken to maintain the fishing in these shallow lakes, to encourage settlement, the settlers not to live by fishing alone but as a means of getting a part living the first years of settlement, and keeping commercial fishing to the parts of the waters uninhabited.

All of which is respectfully submitted.

I have the honour to be, sir,

Your obedient servant,

R. LATOUCHE TUPPER, Inspector.

MANI

RETURN of the Number and Value of Vessels, Boats and Fishing Material, the District extending from Manitoba

		7	FESSELS	AND B	OA	.Ts I	EMPLO	YED.		FISHING MATERIAL.						
	Locality.	_	Vessels o	or Tugs			Boats	b.	Gill-	Nets.		eezers and houses.		Piers and harves		
Number.		Number.	Tonnage.	Value,	Men.	Number.	Value.	Men.	Fathoms,	Value.	Number.	Value,	Number.	Value,		
	Commercial fishing, Lake Winnipeg Lower part of Red River and Lake Winnipeg to Willow Point, west, and to Broken-	12	1606 · 60	\$ 104100	58	23	\$ 3450	181	47600	\$ 8600	22	\$ 86000	13	\$ 510		
	head, east Lake Winnipeg, east side Brokenhead to Doghead Lake Winnipeg, west side (Gimli District) Willow					47 173	530 1730	63 204				600	1	2		
6	Point to Doghead					5	50	10			14	1500				
	gan to Long Point Little Saskatchewan and Lake St. Martin The Narrows Ebb and Flow Lake, and west side Lake					55		44 110								
ĺ	Manitoba Lakes Winnipegoosis, Dauphin and Waterhen Doghead, north, east and west sides of Lake Winni-					61	2335 408	247 130				5800	2	1£		
	peg	1	25.00	1200	6	4	555	61	17500	1750						
	Totals	13	1631 · 60	105300	64	675	11798	1250	228200	24897	46	93900	16	52		

TOBA.

Number of Men employed, &c., with the Kinds and Quantities of Fish, in the and Keewatin, for the Year 1896.

•					KIN	DS OF	Fish.							
Number.	value.	Whitefish, fresh or frozen, lbs.	Pickerel or Doré, lbs.	Pike, lbs.	Bass, lbs.	Sturgeon, lbs.	Tullibee, lbs	Perch, lbs.	Catfish, lbs.	Mixed fish, lbs.	Home consumption,	VALUE.		Number.
• • • •	\$	3270320	94430	10576		! !				,		\$ c	ts.	1
• • •		47500		164000 63100		110500			112000 30000	51 3 00 2 442 00	22306 350000	7,483 26,041		
5	200	140000 200	260000 19000	80000	16000	3400	230000		18000	206000 56000 20000	100000	21,640 1,970 3,800	00	5
6	300	236340 45000	383990 10000				8614 13000			15000 50000	70000 106000	30,845 6,430		
•••		400500	110050	219000			57950			234300	356550	38,339	50	9
• • •		221000	37500	59000				10000		135000	250000	19,805	00	10
		212800	208800							660000	640000	39,396		
11	500	4573660	1418870	934995	16000	175748	309564	50800	178000	1671800	1894856	362,310	80	

Note.—On line No. 1 over 1,000,000 lbs. of whitefish were shipped fresh, and the balance frozen.

RECAPITULATION

Or the Yield and Value of the Fisheries of Manitoba, for the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.
Whitefish Lbs. Pickerel " Pike " Bass " Sturgeon " Tullibee " Perch " Catfish " Mixed fish " Home consumption " Total for 1896 do 1895 Increase	9,170,048	\$ cts. 0 05 0 03 0 02 0 03 0 05 0 02 0 01 0 01 0 01 0 02	\$ cts. 228,683 00 42,566 10 18,699 90 480 00 8,787 40 6,191 28 508 00 1,780 00 16,718 00 37,897 12 362,310 80 250,776 00 111,534 80

STATEMENT of Fishing Material in Manitoba, for the Year 1896.

Material.	Value.
13 fishing tugs, 1,631 tons, 64 men. 675 do boats, 1,250 men. 228,200 fathoms gill-nets. 11 seines. 46 freezers and ice-houses. 16 piers and wharfs.	\$ cts. 105,300 00 11,798 00 24,897 00 500 00 93,900 00 5,270 00
Total	241,665 00

APPENDIX No. 9.

NORTH-WEST TERRITORIES.

REPORT ON THE FISHERIES OF THE NORTH-WEST TERRITORIES, FOR THE YEAR 1896, BY THE INSPECTOR G. S. DAVIDSON.

FORT QU'APPELLE, Assa., N.-W. T., 2nd January, 1897.

HON. L. H. DAVIES,

Minister of Marine and Fisheries, Ottawa.

Sir.—I have the honour to submit my report for the past year.

Owing to the vastness of the territory and the advanced state of the season when I took office I have been able to make a personal inspection of only those districts situated in the immediate vicinity; but trust to make an extended tour in the early spring.

The regulations relating to the close season have on the whole been well observed and with the exceptions of Devil's Lake, the Saskatchewan River and white-fish in Crooked Lakes the stock of fish shows a general increase, although the

catch has been larger than usual.

I am of opinion that in the far north it is impracticable and unnecessary to rigorously enforce those restrictions so vitally important to the fisheries contiguous to thickly populated districts, or commercial centres. Many of the lakes are surrounded by muskegs, twenty and thirty miles in extent and totally unapproachable except during the fall and winter months, it being necessary to leave early owing to the impassable nature of the country at other seasons of the year.

I am indebted for some valuable information regarding the brook-trout in the Macleod and Kootenay districts to the courtesy of Major Steel and Inspector Casey who sent me a box of trout caught on 9th October last, which arrived in good order.

They were with spawn and in prime condition.

Inspector Casey informs me that from his own experience and that of sportsmen in the neighbourhood they are to be found with spawn during all months of the year, and recommends that the close season should be established from the first formation of the ice in the creeks until the break up in the spring.

I hope soon to have some further information anent the lake fish of these waters,

those in many of the fish being unable to reach the lakes for spawning.

There is abundant evidence that all these western streams are teeming with trout, speckled, hog-backed, and bull; eighty to one hundred being an ordinary day's catch with a rod and line. And should, now that the mining wealth of these districts is attracting so much attention, prove an alluring feature to the tourist and

Your officers have received much assistance in the discharge of their duties and much valuable information from time to time from the members of the North-west Mounted Police whom we invariably find both able and willing to afford courteous

and efficient service.

EDMONTON DISTRICT.

W. D. Matheson, overseer in this division, reports an especially large catch in several of the lakes, owing to the settlers having been permitted to fish during the close season, the larger portion having been then taken, and recommends that

11a - 15

the close season be enforced and a policeman be placed in charge in preference to appointing local guardians. There is already a police detachment stationed at "The Landing" and a constable might be sent from thence to those points requiring special care.

LAC LA BICHE.

The catch in this lake has been larger than usual. Eighty per cent of the forty residents find employment with the Hudson's Bay Co. during the summer, and can catch fish during the winter if so inclined; it is therefore recommended that the close season be rigorously enforced.

BEAVER LAKE, NORTH.

At this lake matters are in a similar condition to these at Lac La Biche.

WHITEFISH LAKE.

This lake is under the management of Mr. John Ross, of Saddle Lake. The close season has been well observed, both Mr. Ross and the Revd. E. B. Glass, using their influence to secure such observance.

BEAVER LAKE, SOUTH.

There is a large amount of coarse fish in this lake, and the late Mr. Gilchrist directed that little attention should be given to it; there have, however, been several complaints regarding the destruction of fish during the close season, which were unfortunately received too late for any action to be taken in the matter.

LAKE ST. ANNE.

The fish in this lake are of a better quality than those in the lakes on the north side of the river.

Owing to the poverty of the settlers free permits were issued for domestic

fishing, but no fish have been allowed to be marketed.

There was a guardian appointed during the close season of forty days, and all the regulations were observed.

WHITE WHALE LAKE.

The fish are reported to be too numerous in this lake and the quality consequently inferior to those in Lake St. Anne. Indians and Half-breeds have been travelling from one lake to another, it is therefore recommended that free permits be issued to the settlers with a view to reducing the number of fish, and the residents be restricted to fishing on their respective lakes.

The Half-breeds strictly observed the regulations, but Paul's band of Indians

were allowed fish during the close season.

LAKE LANOU.

Whitefish and coarse fish are very numerous in this lake, but there are no settlers in the vicinity. The fishing has been carried on by Indians from River Qui Barre Agency.

DEVIL'S LAKE.

The stock of fish here has been steadily on the increase owing to the fact that there are only three settlers and one Indian with net.

The regulations have been well observed.

PIGEON LAKE.

This is a magnificent sheet of water abounding in whitefish, pike, pickerel, and a considerable number of coarse fish; it is unquestionably the best fishing lake in this large and important district, as is evidenced from the fact that although the number of boats and canoes is much less than of those employed on other lakes the catch is much greater than the combined take of any other four.

Owing to the existence of a considerable amount of jealousy the settlers exercise a reciprocal watch over each other and to a great extent act as their own guardians. Domestic licenses have however been abused by turning them to commercial purposes, and, Mr. Matheson recommends that the fees for licenses to white men on this particular lake be raised without allowing nets of a larger capacity; this he is of opinion would tend to check the abuse.

BAPTISTE LAKE.

This lake is situated about twelve miles south-west of Athabaska Landing and contains only tullibee.

Great destruction of fish is reported to have taken place during the past two years; Mr. Matheson points out the facility with which this lake might be guarded from "The Landing," and foretells a speedy extinction of the fish unless some such steps are taken in the immediate future.

PRINCE ALBERT DISTRICT.

Fishery Overseer R. S. Cook, reports the regulations well observed in this

district, no fines having been imposed, and only three nets seized.

The catch in Red Deer, Little Trout, Big Trout, Montreal and Pelican lakes are turning out exceedingly well, 343,000 lbs. of fresh fish having been shipped to the United States markets during the past year. One fisherman with 300 yards of net caught five tons of fish in fifteen days. A marked contrast to this is to be found in the lakes to the north-west of Prince Albert where for no apparent cause the fisheries are rapidly giving out; there is also a scarcity of rabbits in this locality which causes a heavier demand for fish amongst the native population.

The fisheries on the Saskatchewan also turned out a complete failure and the Saskatchewan Fish Co. has sustained a heavy loss in connection with sturgeon

Free permits were issued to the number of 143 to Half-breeds and Indians, and revenue (for license fees) amounting to \$192.00 was collected during the year.

LONG LAKE DISTRICT.

Fishery Overseer John Foster reports the close season to have been well observed by both white men and Indians, and there were no fines inflicted and no confiscations made.

For twelve years the waters of those lakes have been annually lowering one foot, but during the year past they have, in consequence of the large rainfall, risen about a foot. There being abundance of food the catch of whitefish has been larger than usual; but the take of pike and coarse fish has not been so great. This is, in the opinion of Mr. Foster, to be attributed to the fact that the fishing has been done in deeper water.

CROOKED LAKE DISTRICT.

Fishery Guardian Gerald Fitzgerald reports a fair catch of all fish except whitefish, which have almost disappeared from the lakes of this district, there being none in Crooked Lake, and only a few old ones in Round Lake, the presence of these being accounted for by the fact that there has been less small net fishing in the latter than in the former.

 $11a - 15\frac{1}{2}$

The placing of whitefish fry in these lakes would be of very material benefit to the settlers, being worth at least three times as much as mullet.

QU'APPELLE DISTRICT.

Fishery Guardian John Leader, jr., reports a rigid enforcement of the fishery regulations, to which fact may be attributed the universally plentiful supply of fish of all kinds.

KATEPWE LAKE.

In this lake the greater part of the fishing is done during the spring and autumn

months in shallow water.

A supply of whitefish fry was placed in the lake some four years ago, and that fish is now particularly plentiful, being as great as at any time during the past twelve years.

There were 5 gill-nets, 3 spears and 2 ice lines seized during the year.

MISSION LAKE.

This lake has a good supply of pike, pickerel, tullibee, perch and suckers, and the catch of whitefish was larger than that of last year.

PASQUA LAKE.

A considerable increase in fish of all kinds is noted in this lake. A large number were killed by an electric storm in July last.

Only one licensed fisherman operated here this year.

WYOWASUNG LAKE.

This is the chief spawning ground for pike, pickerel and buffalo fish.

QU'APPELLE LAKE.

This is the principal fishing lake of the district; it was stocked with whitefish fry at the same time as Katepwe Lake, and the supply is abundant.

MACLEOD DISTRICT.

Fishery Guardian I. W. Short reports the laws regulating the close season and illegal netting and spearing to be observed and enforced.

All the dams are provided with fish-ways.

Mr. Short corroborates the statement of Inspector Carey, that trout are to be

found with spawn at any time during the open season.

All the rivers, streams and lakes of this district abound in salmon-trout, pike, grayling, bull-trout and river-trout (or cut-throat), the latter appear to be very different from the ordinary brook-trout.

There are no fish exported from this neighbourhood and very little sold; the settler generally fishing for sport and consuming what he catches. An Indian may occasionally be seen offering fish for sale and the price is about 25 cts, for $3\frac{1}{2}$ or 4 lbs.

MO()SE-MOUNTAIN LAKES.

These lakes, three in number, have until the recent appointment of Guardian W. V. Hill received no care. The regulations are reported to be now well observed, Mr. Hill being unable to find any one committing a breach of the law.

The lakes have a depth of water varying from ten to forty feet, and the bottom

is largely composed of gravel.

One of the lakes situated on White Bear Indian Reserve has been almost entirely fished out, and it would be a great benefit to the settlers to have it stocked with fry. The only fish now found are pike and pickerel.

CANNINGTON LAKE.

- This is a larger body of water and is well stocked with pickerel, pike and suckers.

BATTLEFORD DISTRICT.

As reported to the Department, I found it necessary to suspend the guardian of this district, and pending a reappointment I am without any report from this very important post; but I trust during my proposed visit in the spring to put matters straight.

CUMBERLAND HOUSE DISTRICT.

I have received no returns from this district.

PAS DISTRICT.

No returns received.

Herewith I append a statement of the fish caught and boats employed, nets used, etc., on the various lakes.

I have the honour to be, Sir,

Your obedient servant,

G. S. DAVIDSON,

Inspector.

NORTH-WEST TERRITORIES.

RETURN of the Number of Fishermen, Tonnage and Value of Tugs, Vessels and Boats, &c., the Quantity and Value of Fish, in the District of Prince Albert, Saskatchewan Territory, for the Year 1896.

		Fishing Material.										
	Districts.		Tugs.		Boats.			Gill-Nets.				
Number.	·	Number.	Value	Men.	Number.	Value.	Men.	Number.	Fathoms.	Value.		
2 3	Saskatchewan River		\$ 1,200	3	20 15 15 20	\$ 250 150 150 250	25 20 20 25	100 70	750 3,000 2,000 12,000	\$ 350 500 325 1,400		

RETURN showing the Kinds of Fish in the District of Prince Albert, Saskatchewan Territory, for the Year 1896.

		,							
Number.	Whitefish, lbs.	Trout, lbs.	Pickerel, lbs.	Pike, lbs.	Sturgeon, lbs.	Tullibee, lbs.	Gold Eyes, lbs.	VALUE.	٠
1 Beaver River. 2 Green Lake 3 Assiniboia Lake 4 Devils Lake. 5 Big Whitefish and other small lakes.	48000 12000 24000 9000 18000		20000	100000 50000 1000 5000	• • • • •			\$,000 600 2,200 470 1,000	00
6 Montreal Lake 7 Red Deer Lake 8 Little Trout Lake 9 Big Trout Lake 10 Pelican Lake	*213000 †20000	80000 8000	15000					15,800 1,640	00
13 Candle Lake. 14 Saskatchewan River. 15 Lakes South of South Saskatchewan River Total.		88000	1000 1500 37500		• • • • •		1200	$-\frac{2,232}{145}\\-\frac{29,087}{}$	00

The catch at Stanley, Ile à la Crosse and other lakes in the far north not included. *Fresh fish exported to the United States markets. †Used for home consumption.

RETURN of the Number of Fishermen, Tonnage and Value of Tugs, Vessels and Boats, the Quantity and Value of Fish in the District of Edmonton, Alberta, for the Year 1896.

	Number.		-0.00			1
	VALITE.	\$ cts.	4,500 00 1,215 00 1,035 00			28,065 00
	Mixed and coarse fish, lbs.		5000 1000 1000	8000 1500	3000 300 7000	36800
SH.	'l'ullibee, lbs.		2000	0008	* * * * * * * * * * * * * * * * * * *	13000
KINDS OF FISH.	Pike, lbs.		1500 1500	30001	3000	75200
Kin	Pickerel, Ibs.				1000	1000
	.edf ,dsfletidW		135000 38000 32000	===	8000 500 480000	809500
ts.	Value.	€ ₽	600 78 180		009	1722
Gill-Nets.	Fathoms.		5000 650 1.500	:	500 75 5000	14350
MATER	Number.		200		2002	574
FISHING MATERIALS.	Men.		2002	:	30	150
E) Boats.	.9ulaV	€ ₽	750 120 300		300	1745
	Number		208	188	30	141
	Districts.		1 Lac La Biche 2 Whitefish Lake on Indian Reserve. 3 Beaver Lake near Lake La Biche	4 Deaver Lake south of 11Ver 5 Lac St. Anne 6 White Whale Lake.	7 Lake Lanon 8 Devils Lake 9 Pigeon Lake	Totals

* Caught during close season by means of pitch-forks, etc., see Reports.

RETURN of the Number of Fishermen, Tonnage and Value of Tugs, Vessels and Boats, &c., the Quantity and Value of Fish, in the District of Prince Albert, Saskatchewan Territory, for the Year 1896.

		VALUE.	ects.	3,140 00 700 00 3,801 00 92 00 1,275 00 29,087 00 42,637 00 302,500 00	383,232 00
	'ten es	Mixed and coars		95000 30000 9900 11600 1200 36800 2000000	2184500
		Tullibee, lbs.		12000 18400 500 13000	43900
		Perch, lbs.		15000	92000 15000 43900
Fish.		Sturgeon, lbs.		42000	92000
KINDS OF FISH.		Pike, lbs.		65000 5000 15050 16700 212000 75200	1389050
W.		Pickerel, lbs.		11500 10000 9700 37500 2000000	2079100
		Trout, lbs.		00088	00088
		.adl ,dañstidW		100 62200 1800 3500 344000 809500 4000000	5221100 88000
		Value.	6 9	160 40 560 20 20 2575 1722	5343
zů.	FISHING MATERIALS. Boats. Gill-Nets.	Esthoms.		935 250 3500 100 1550 17750 14350	38435 5343
RIAL		Number.		16 140 140 64 574 574	283 1393
MATE		Men.		28 112 150 150	
ING 1	Boats.	Value.	66	100 105 105 243 800 1745	2993
FISH	1 11	Number.			231
	70	Men.			0 3
	Tugs.	Value.	€ €	1200	1200
	1	Number.		:::::::	
	,	DISTRICTS.		1 Crooked Lake 2 Moose Mountain 3 Long Lake 4 Eagle (Vull Lake 6 D'un Appelle Lakes 6 Prince Albert 7 Edmonton 8 Cumberland and other districts (Estimated	Total
11		Number.			

RECAPITULATION

OF the Yield and Value of Fisheries in the North-west Territories for the Year 1896.

Kinds of Fish.	Quantity.	Value.
Whitefish Trout Pickerel. Pike Sturgeon Perch Tullibee Coarse and mixed fish. Totals do for 1895 Decrease		\$ cts. 261,055 00 4,400 00 62,373 00 27,781 00 4,600 00 878 00 21,845 00 383,232 00 501,690 00 118,458 00

STATEMENT of Fishing Materials in the North-west Territories, 1896.

1 fishing tug (3 men) 231 fishing boats (283 men). 38,435 fathoms of gill-nets.	2,993 5,343
1 freezer	2,000
Total	\$11.536

RECAPITULATION

OF the Yield and Value of the Fisheries of Manitoba and the North-west Territories, 1896.

Kinds of Fish.	Quantity.	Value.
	Lbs.	\$ cts
Whitefish Pickerel Pike Sturgeon Bass Trout Tullibee Perch Catfish Mixed fish Home consumption	3,497,970 2,324,045 266,748 16,000 88,000 353,464 65,800 178,000 3,856,300	489,738 00 104,939 10 46,480 90 13,387 40 480 00 4,400 00 7,069 28 808 00 1,780 00 38,563 00 37,897 12
Total do for 1895		745,542 80 752,466 00
Decrease		6,923 20

RECAPITULATION

Or the Fishing Material used in Manitoba and the North-west Territories.

Material.	Value.	
47 freezers	\$ 106,500 14,791 30,240 500 95,900	00 00 00 00
16 fishing piers and wharfs	253,201	

APPENDIX No. 10.

BRITISH COLUMBIA.

ANNUAL REPORT ON THE FISHERIES OF BRITISH COLUMBIA FOR THE YEAR 1896, BY INSPECTOR JOHN McNAB.

NEW WESTMINSTER, 14th January, 1897.

Honourable L. H. Davies,
Minister of Marine and Fisheries,
Ottawa.

SIR,—I have the honour to submit my annual statistical, tabulated report touching the quantities, and values, of the products of the fisheries of British Columbia, for the year 1896.

The season was a prosperous one,—the output of canned salmon for the province, was the largest in the history of the industry, and that of the Fraser River, the third largest on record, notwithstanding that it was what is known by canners and fishermen as an "off" year.

As shown in the appended tabulated statement A,—the pack of the Fraser River was 375,344 cases, or 18,016,544 1 lb. cans, and that of the whole province, 621,938 cases, or 29,858,056 cans of 1 lb. each; the largest previous pack was that of 1893, which amounted to 29,169,908 1 lb. cans, or 683,148 cans less than in 1896.

The halibut and sturgeon fishing industries are being conducted on a more satisfactory basis than formerly, the first named industry is capable of unlimited expansion, the catch during the year amounted to 2,276,556 lbs. 1,926,956 lbs. of which was exported to eastern markets. The catch of sturgeon for commercial purposes amounted to 380,500 lbs. dressed fish, 355,500 lbs. of which was exported to eastern markets. A large number of sturgeon are caught by settlers and Indians for domestic use, they are in greater demand each year, and the facility with which they can be caught by poachers in the lakes and sloughs,—by the use of the destructive brawl lines, renders their protection difficult, but of very great importance.

The catch of fur-seal skins for 1896 shows a large decrease, as compared with

that of the previous year :-

The prices of the skins are also much less than was obtained for the 1895 catch. The capital invested in the fisheries in 1896, was \$2,614,578, an increase of \$578,143 over that of 1895.

The number of hands employed in canning, fishing and sealing, during 1896,

was 15,925, against 14,485 in the previous year.

Shad are becoming plentiful in the Fraser River, and it will be necessary for

your department to formulate regulations governing their catch.

The lobsters and oysters sent to Vancouver by your department last season, reached their destination, and were planted in various suitable places in fairly good condition. I have visited three beds, and handled some of the oysters several times since they were planted; they were in good condition, and the young oysters attached to the shells were increasing in size.

The present fishery regulations give every general satisfaction, and my

guardians in the different districts, reported that they were fairly well observed.

I have, sir, the honour to be,

Your obedient servant, JOHN McNAB,

Inspector of Fisheries.

A.—Schedule of Salmon Canneries in British Columbia, Season 1896.

Owner or Agent.	Name of Cannery.	Packed in 1-lb. Cans.
Fraser River.		
A. Ewen & Co	Ewens	972,720
Westham Island Packing Co	McDonald Bros. & Co	274,752
Lam Tung		295,680 428,544
Walter Morris	Federation	703,776
Alacomb & Windsor		1,081,248 $585,600$
Costello & McMorren. Fisherman's Canning Co.	Fisherman's	470,784
A Hume & Co	J. A. Hume	312,000
Bon Accord Fishing Co	Sea Island	580,000
Short & Squire Hennessy & Alexander	Imperial	529,440 483,312
	Delta	1,056,000
Victoria Canning Co	Harlock	816,000
	Wellington	480,000
	Wellington Terra Nova	480,000 472,960
Hobson & Co	Atlas	289,440
. H. Todd & Son.		513,02
clo Provincial Canning Co.	Provincial	$\begin{bmatrix} 541,63\\271,82 \end{bmatrix}$
Brunswick Canning Co	Brunswick.	454,56
Boutilier & Co	Boutilier's	360,00
Fraser River Industrial Co. Alliance Canning Co	Industrial	338,40 230,40
Food Murphy & Co.	Dinsmore Island	
McPherson & Hickey	McPhersons	369,60
M. Costello	Fraser River	384,00
Anglo-American Canning Co	Anglo-American	408,00
	Wadhams	
H. Bell-Irving & Co	Camu Pass	2,968,84
	British American	
P. Birrell	British Columbia	432,000
Skeena River.		
Carlisle Packing Co	Carlisle	652,80
Royal Canadian Packing Co	Royal Canadian	
Victoria Canning Co	Standard	304,00
Furner Beeton & Co	Univerness	533,71 504,00
Anglo-British Columbia Canning Co	North Pacific	504.00
do do	British American	576,00
Cunningham & Son Furner Beeton & Co.		
Naas River.		
	Naca Harbana	
Federation Canning Co	Naas Harbour	703,15
Rivers Inlet.		
Brunswick Canning Co	Brunswick	840,00
H. Bell-Irving & Co	Good Hope	
British Columbia Canning Co	Victoria	631,96
do do	Rivers Inlet	1,267,53 $979,20$
Victoria Canning Co	Wannock	979,20
T 1 T 1 .		
Lowe's Inlet.		

A.—Schedule of Salmon Canneries in British Columbia, Season 1896—Concludeed

Owner or Agent.	Name of Cannery.	Packed in 1-lb. Cans.
Namu Harbour.		
R. Draims	Namu	199,200
Alert Bay.		
A. S. Spencer	Alert Bay	137,184
West Coast.		
Clayoquot Fishing Co		239,760 2,400
Recapitulation.		
		18,016,544 11,594,352 242,160
Grand total621,938		29,853,056

B.--Report of Catch, &c., of British Columbia Sealing Fleet, Season 1896.

		CRE	ews.			PART	CULAR	s of C	ATCH.		
Vessels.	Tons.	Whites.	Indians.	Boats,	Canoes.	B.C. Coast	Japan Coast.	Copper Islands.	Behring Sea.	Total.	Remarks.
Ada	91 107	6 25	20	10	10		545		723 282	723 827	
Agnes Macdonald	75	6	12	2	6	428	545		139	567	Seized in Behring Sea
Allie J. Algar	75	23	10	9		100	659	48	411	1,118	
Amateur	18 113	8	16 34	2	8 16	109 431			1,088	109 1,519	
Annie E. Paint	82	26		12			815		225	1,040	
Arietis	86	25		9			1,034	95	438	1,472	(Seized in Behring Sea
Aurora	41 66	20 6	26	6 2	13	381	325	35	$\begin{array}{c} 77 \\ 532 \end{array}$	437 913	on 10th August.
Beatrice	49	6		2	6	363			92	455	on 5th August
Borealis	37	23		7			327		305	632	
Carrie, C. W	76 92	25 9	31	9 2	16	169	1,222	.,	234 903	1,456 $1,072$	
Casco	63	22		7			808	202		1,010	
C. D. Rand	. 51	6	27 22	2	13	213			569 400	569	
City of San Diego Diana	46 50	6 18		6		210	997	95	400	613 1,092	
Director	87	23		7			893	183		1,076	
Dolphin	72 93	8 10	$\frac{26}{32}$	3 2	13 16	502 377			607 826	1,109	
Dora Seiward	60	6		1	12	911			662	$\begin{array}{c c} 1,203 \\ 662 \end{array}$	
E. B. Marvin	96	23		11			836		251	1,087	
Favourite	80 59	6 9	33 26	2 2	16 13	824 429			1,049 614	1,873 1,043	
Fawn Fisher Maid	21		9		4	63		/	0.1.4	63	
Florence M. Smith	99	27		11			602		271	873	
Fortuna	97 92	$\frac{24}{26}$		7 8			534 499	174 451		$708 \\ 950$	
GenevaIda Etta	69	22		9			659	13	370	1,033	
Kate	58	7	25	2	12	204			318	522	(Foundared on see with
Katharine Killermy	81 18	20 4	12	6	6	100	215			215 100	207 skins.
Labrador	25	7	10	2	5	91			308	399	
Lebby	92	8	28	2	14	502			593	1,095	
Mary Ellen Mary Taylor	63 43	6 19	24	3 6	11		383		536 137	536 520	
Mascot	40	6		2	7		192		416	609	
Maud S	97	10	20	3	11				602	602	
Mermaid Minny	73 46	25 6	20	8 2	i	486	940		345 484	1,285 970	
Ocean Belle	83	18	13	3	10		584		316	900	
Ocean Rover	55	7	18	2	9				602	602	
Oscar and Hattie Osprey	82 40	9 8	28 10	3	14 5	353			589 200	$\frac{942}{200}$	
Otto Pachwillis	86	9	25	2	12		719		501	1,220	
Pachwillis	20 70	6	20 25	2	$\frac{10}{12}$	152				152	
Penelope Pioneer	66	24	20	7		458	849	44	894 375	1,352 $1,268$	
Sadie Turpel	56	9	20	4	8		582		281	863	
San Jose	31 109	7 9	18 40	2 3	10 18	230 418			605 $1,002$	835	
Sapphire Saucy Lass	38	6	22	1	11	471			555	1,420 $1,026$	
Selma	21	3		1	5				185	185	
South Bend	21 63	4 10	10 15	$\frac{1}{2}$	5 9	70	231		359 483		
Teresa Triumph	98	14	23	5	12		606	20	750	1,376	
Umbrina	99	25		10			742	41	298	1,081	
Venture Vera	48 60	$\frac{6}{22}$	16	2 7	8	269	572		$\frac{442}{264}$	711 836	
Victoria	63	8	22	2	11	164			901.		
Viva	92	26		7			607		70	677	Seized 24th August.
Walter L. Rich Zillah May	76 66	8 9	27 22	2 3	13 11	93			399 821	492 821	
Total	4,222 Indian	809 cane	889 e-cat	263 ch or	442	8,350 B. C	17,968 coast	1,306	25,700	53,324 2,353	
		OWIIC	0000		_ 0110	2. 0.				2,000	

C.—Return showing the Number, Tonnage and Value of Vessels and Boats, and the Number of Men engaged in the Fisheries, Quantity and Value of Fishing Materials, Kinds and Quantities of Fish, &c., in the Province of British Columbia, for the Year 1896,

li .		Mumber.		10084297860	
oudrs.	*so	Sturgeon, Il		355500 25000 380500	
KINDS OF FISH AND FISH PRODUCTS.	Salmon, in cans.			8001 18016544 355500 5000 529588 750 5595312 10000 703152 2000 25000 7500 242160 2300 242160	-
H AND I	sql 'pa	Salmon, smoke			
S OF FIS	.sql 'qs	Salmon, fre		902595 10500 150000 150000 150000 25000 5000	
Km	°S	Salmon, brl		793 120 500 260 260 50 50 150 500 500 500 500 500 500 500	
	Sturgeon Lines and Nets.	.9µlsV	\$	7012 793 120 100 200 1000 200 1000 50 300 250 50 4000 150 200 500 15012 2413	
ALS.	Sturgeon Lines and Nets.	Value of Scows.		14566 1000 3025 1000 1000	
TATERL	nes.	Value.	vo	3000 465 2175 375 475 6000 1500 1500 15800	
FISHING MATERIALS.	Seines	Fathoms.		2000 310 11450 250 300 350 4000 1000 680	
Fis	Gill-Nets.	Value.	• ♦€	115 2621 124030 9607 396900 295425 14 372 11160 1537 75000 56250 20 460 13940 1760 11502 86250 11 95 2850 410 2170 1675 20 2800 60 1200 1200 180 3600 120 1200 180 60 3600 45 150 1000 18 25 1200 60 200 1500 15 20 800 150 2000 18 25 1200 60 200 1500 18 25 1200 60 200 1500 18 27 184180 150 1500	
	G:11-1	Fathoms.		5607 396900 295425 5727 7500 56250 770 115025 86250 110 3000 16275 110 3000 3000 45 1500 1200 45 1500 1200 60 200 1500 150 2000 1500 8554 518325 464400	
OYED.	1 20	Men.		96073 1532 1760 110 110 60 60 60 60 60 120 120	
S EMPI	Boats.	.9nlsV	OF)	124030 111160 13940 2850 3750 2000 800 1200 800 1200	
30AT		Number.		2621 460 95 20 20 20 20 20 20 20 20 37 20 37 20 30 30 30 30 30 30 30 30 30 30 30 30 30	
I ON		мет.			
ESSELS AND BOATS EMPLOYED.	Vessels	Value.	€€	43 193300 4 21000 7 30700 5 2865 6 12000 6 1800 4 4750 129 266415	
A E		Number.		44 4 66 60 60 129	
	•			Island. Island.	
	Districts.			1 Fraser River District. 2 Rivers Inlet District. 3 Skeena River District. 5 Rass Fluver District. 6 West Coast Queen Charlotte Island. 6 West Coast Queen Charlotte Island. 7 Cape Scott to Comox 8 Comox to Victoria. 9 Victoria to Cape Beale. 10 Cape Beale to Cape Scott. Totals.	
11		Number.		L 44 6 4 10 0 1 0 2 0 2	

C.—Return showing the Number, Tonnage and Value of Vessels and Boats, &c.—Province of British Columbia—Concluded.

	Number.	10047007000			
	VALUE.	\$ cts. 2,047,751 70 537,933 80 586,318 70 88,000 70 16,300 00 8,007 50 8,607 50 8,655 00 58,855 00 9,725 00 9,725 00	3,394,900 40	501,093 00 15,280 00 19,350 00 3,375 60 250,000 00	4,183,999 00
	Fish-oils, galls.	2000 2500 2500 25000 25000 10000 1000 5000	61500		
	Sea Otter-skins, No.	4 . 525	23		:
	,saids-last isH	400 1000 250 1000 650 200 200	3700		
	Fur seal-skins, No.			55677	:
	Skill, brls.	60	70		:
CTS.	Codfish, lbs.	25000 100000 5200 3000 5000 5000 25000 15000 8000 6000	287200		
Produ	Smelts, lbs.	1	55000		
Fish	Assorted or mixed fish, lbs.	5500 125000 1000 1000 125000 125000 2500 10000 3000 225000 5000 18000 5000 8000	64500 425400		
H AND	Trout, lbs.	26500 1000 1000 12500 13000 5000	64500		•
F FIS	Oolachans, smoked, lbs.	1000 1000 5000 5000 5000	9500	ne abo	
Kinds of Fish and Fish Products.	Oolachans, fresh,	100 235000 1000 135 10000 1000 250 10000 500 500 45000 2000 75 60000 5000	21050 1000 1060 360000 9500	ed in t	
M	Oolachans, salted, brls.		1060		
	Herring, salted,	350	1000	4,000 i0	
	Herring, smoked,	4350 200 200 3000 1000 1000 1000	1	wns, \$ 2,541.6	
	Herring, lbs.	20000 5500 1500 120000 120000 25000	190000	nd pra	
	.sdl ,tudilsH	1926956 25000 20000 20000 25000 1500 233100 25000 10000	2276556 190000	shrimps a 44 lbs. at	:
	Districts.	1 Fraser River District. 2 Rivers Inlet District. 3 Skeena River District. 4 Nas River District. 5 East Coast Queen Charlotte Island. 6 West Coast Queen Charlotte Island. 7 Cape Scott to Comox. 8 Comox to Victoria. 9 Victoria to Cape Beale. 10 Cape Beale to Cape Scott.	Totals	Catch of Canadian fur seal fleet. Oysters, \$4,800 : dains, \$600; isinglass, \$750 Carabs, \$18,000; abelonies, \$600; isinglass, \$750 Caviar, 2,780 lbs. at 30c., \$834; cans clams, \$16,944 lbs. at 15c., \$2,541.60 Estimated value of fish of various kinds consumed in the province and not included in the above.	Grand total.
	Number.	1		1 00004	

D.—RECAPITULATION

OF the Yield and Value of the Fisheries of British Columbia, for the Year 1896.

Kinds of Fish.	Quantity.	Price.	Value.	
		\$ cts.	ф Ф	cts
Salmon, in one pound cans	29,853,056	0 10	2,985,305	60
do fresh	1,229,595		122,959	50
do salted Brls.	2,413	10 00	24,130	
do smoked Lbs.	41,350		10,337	
Juligeon, Hesil, alessea	380,500	0 05	19,025	
Halibut, fresh	2,276,556	0 05	113,827	
do smoked	191,000	0 03	5,730	
do salted. Brls.	21,050	0 10	2,105	
Oolachans, fresh Lbs.	1,000 360,000	5 00 05	5,000	
do smoked.	9,500	.0 10	18,000 950	
do salted. Brls.	1,060	10 00	10,600	
Frout, freshLbs.	64,500	0 10	6,450	
Fish, assorted and mixed	425,400	0 05	21,270	
Smelts, fresh"	55,000	0 05	2,750	
Codfish, fresh "	287,200	0 05	14,360	
Skill, salted Brls.	70	10 00	700	
Fur-seal skins No.	55,677	9 00	501,093	00
Hair-seal skins "	3,700	0 75	2,775	
Sea otter	23	175 00	4,025	00
Clams Bush.	8,000		6,000	00
Mussels"			480	
Oysters			4,800	
Clams, canned in one pound can		0 15	2,541	
Crabs			18,000	
Abelonies			600	
Shrimps and prawns Lbs.		0.00	4,000	
singlass	2,780	0 30	834	
Fish oil	61,500		750 24,600	
Estimate of fish consumed in the province, and not included in the	01,000		24,000	UU
above	* * * * * * * * * * * * * * * * * * * *		250,000	00
Total			4,183,999	

E.—Capital invested in Fisheries, and Fishing Material, in British Columbia, including the Fur-seal Fleet, Boats, &c., for the Year 1896.

Material.	Value.	Total.
	8	\$
59 salmon canneries, complete	20,000	1,180,000
12 oil factories		38,000
4 freezers and cold storage		30,000 3,000
6 salteries 129 vessels		266,415
3.718 boats employed in fishing		164,130
18.325 fathoms of gill-nets		464,400
10.340 do seines		15,800 19,591
Scows and flat boats		15,912
64 vessels employed in fur-sealing	379,980 26,300	2,197,248
Grand total		2,614,578
Hands employed in boat fishing, curing and canning fish	809	
	15,925	

APPENDIX No. 11.

FISH CULTURE,

1897.

REPORT BY PROFESSOR EDWARD E. PRINCE, COMMISSIONER AND GENERAL INRPECTOR OF FISHERIES FOR THE DOMINION OF CANADA, FOR THE YEAR 1897.

To the Honourable Sir Louis H. Davies, K.C.M.G., &c. &c. Minister of Marine and Fisheries, Ottawa.

SIR,—I have the honour to present my annual report upon the work of fish-culture carried on in the department's hatcheries during the year 1897. The particulars of this work are given in the individual reports, which follow, of the officers in charge of the various establishments devoted to the artificial propagation of fish, and it is only necessary to point out that the very satisfactory condition of things, which I have been able to report for several seasons past, has been fully maintained during the year. By reference to the table on page 244 it will be seen that the number of fry successfully hatched of the various species, salmon, whitefish, lake-trout and lobsters is highly satisfactory, in view of the unavoidable fluctuations which of necessity occur in operations of this nature. It is to be remembered that two of the hatcheries, for special reasons, were not operated, while certain adverse circumstances in other hatcheries prevented the accomplishment of results such as

I have in recent reports been able to announce.

In all fish-culture operations it is to be expected that from year to year fluctuations will occur. Thus in dry seasons the parent-fish are unable in many cases to reach their accustomed spawning grounds until so late a date that it becomes very difficult to secure them in ample numbers. Last season on the Fraser River there appeared to be a danger, due to this cause, of shortage in the supply of sockeye salmon eggs, as the water in Morris Creek (Harrison River) was very low. The inspector for the province reported that the creek was reduced to a series of shallow pools with gravel bars, rendering it impossible for the spawning fish to get to their accustomed haunts until very late in October, when the rainfall raised the water to its usual height. As a rule supplies of eggs are readily obtained at the end of September and early in October, but when the season is abnormally late the business of egg-collecting becomes hazardous and unsatisfactory. Fluctuations also occur in the abundance of parent-lobsters on the Atlantic coast and the Bay View lobster hatchery is in some seasons supplied with great difficulty. Last year spawning lobsters were by no means so plentiful as in the preceding season, though the quantity of eggs (about 100,000,000) obtained was ample, it was far below the supply of the previous season. The officer in charge of this hatchery referred in his report to the presence of ice, and the heavy gales which prevented the hauling of the traps, and it was not possible therefore to secure as many egg-bearing lobsters as before, but this year the scarcity of breeding lobsters is due to some cause which is not very apparent. It appears that while lobsters appeared to be very numerous on the usual fishing grounds, yet on those areas upon which the hatchery mainly relies for its quota of eggs, berried lobsters were very scarce. The local pack of $11a - 16\frac{1}{2}$

lobsters was, as a matter of fact, in excess of 1896, yet lobsters bearing eggs were very scarce during the whole season of 1897, and when the close time commenced there were less than 100,000,000 eggs in the hatching jars. This quantity is of course very large, but the fry planted were about ten per cent less in quantity than in 1896 and about forty-five per cent of the quantity planted in 1894 and 1895. It is possible that the continued capture of female lobsters season after season for canning purposes and for shipment alive is unduly diminishing their numbers as compared with the male lobsters. This is very possible as it is mainly the female lobsters that resort to the inshore shallows in order to take advantage of the warmer water to be found there. The eggs hatch out more favourably in shallow than in deeper water, and an excessive number of such berried lobsters bearing ripe eggs must of necessity be taken. If the males remain in deeper water during the months of June, July and August, it is possible also that large numbers of females which have not yet exuded their eggs, do so also, and the fishing operations now being carried on more extensively than formerly at greater depths, will destroy vast numbers of females, which unless carefully examined would be regarded as males. It is interesting to note that lobsters appeared to run much later than usual in the Straits of Northumberland (off Pictou County) and the fry hatched out of the eggs in the hatchery jars at a later date than in previous seasons.

As the table below demonstrates the operations carried on during the year have been highly satisfactory, and the output of fry is one which reflects credit upon the efficiency and industry of the officers in the various provinces who have this work

in charge.

The following table shows the location of each hatchery, the quantities of fry distributed and the number of eggs shipped to other hatcheries either in an early state of incubation or in an advanced (semi-hatched) condition. The species of fish is specified in each case:—

Bedford, N.S.	No.	Name of Hatchery,	Number of Fry put out of Hatchery.	Number of advanced Eggs sent to other Hatcheries.	Number of advanced Eggs received from other Hatcheries.	Description of Fish
do	2	Sydney, N.S Bedford, N.S	496,000	84,000		Atlantic salmon.
13 Ottawa, Ont	6 7 8 9 10 11 12 13	Dunk River, P.E.I. St. John River, N.B. do do Miramichi, N.B. Restigouche, Que Gaspé, Que Tadoussac, Que Magog, Que do Newcastle, Ont do Sandwich, Ont. Ottawa, Ont. do Bay View, N.S.	4,000,000 900,000 455,000 2,800,000 1,558,000 2,100,000 1,100,000 3,272,000 3,000,000 1,500,000 2,700,000 72,000,000 2,920,000 1,180,000 90,000,000	Not in operation 500,000 750,000 2,500,000 15,000,000	3,000,000 1,500,000 3,000,000 500,000 1,500,000 1,200,000	Atlantic salmon, Great lake trout. Whitefish. Atlantic salmon. do do do Whitefish. Great lake trout. do Whitefish. Great lake trout. Lobsters.

At the Miramichi hatchery it may be noted that a new departure has been made, and a batch of 30,000 brook trout (Salvelinus fontinalis) obtained with the co-operation of the provincial (New Brunswick) fishery authorities. The hatching

of brook trout has never been carried on to any extent in the department's hatcheries for the reason that these fish are regarded mainly as game fish and of less value

therefore from a commercial standpoint:

The additional table which follows shows the total number of all the kinds of fry hatched and distributed from the several hatcheries since operations were commenced in each. This table has been compiled for the twenty-four years up to and including 1897.

STATEMENT showing the Places where, and the Years in which, the several Fish Establishment, annually, since they

YEAR.		ONTARIO.			QUEB	EC.	
Y EAR.	Newcastle.	Sandwich.	Ottawa.	Magog.	Tadousac.	Gaspé.	Restigouche
	Fry.	Fry.	Fry.	Fry.	Fry.	Fry.	Fry.
1868-73							
1874							100,000
1875					60,000	110,000	
1876					150,000	50,000	
1877					1,180,000	1,051,000	
1878		20,000,000			707,000	650,000	
1879 1880		12,000,000			1,250,000 1,155,000	1,597,000 730,000	
1881				200,000	334,000	500,000	
1882				975,000	660,000	530,000	
1883				250,000	995,000	520,000	
1884		37,000,000		100,000	985,000	859,000	
1885				300,000	720,000	290,000	
1886				1,400,000		576,000	
1887				675,000	900,000	630,000	
1888		56,000,000		3,475,000	850,000	800,000	
1889		21,000,000		2,800,000	1,600,000	450,000	1,280,00
1890				2,875,000		806,000	2,396,00
1891		75,000,000			1,300,000	1,000,000	
1892	4,823,500	44,500,000				965,000	
1893		68,000,000				910,000	
1894		47,000,000				850,000	
1895						675,000	
1896						300,000	
1897	4,200,000	72,000,000	4,100,000	4,500,000	3,272,000	1,100,000	2,100,00
Totals.	. 117,000,200	981,500,000	39,633,000	35,385,000	28,609,000	15,949,000	29,089,00

Hatcheries have been erected; also the number of Fry distributed from each were built, including the year 1897.

New Brunswick.		Nova Scotia.			P. E. Island.	BRITISH COL- UMBIA.	MANITOBA	
Mira- michi.	St John River.	Bedford.	Sydney.	Bay View Lobster Hatchery,	Dunk River.	Fraser River.	Selkirk.	Totals.
Fry.	Fry.	Fry.	Fry.	Fry.	Fry.	Fry.	Fry.	·Fry.
								1,070,000
60,000								510,000
150,000								1,570,000
60,000		395,000						9,655,000
320,000		1,000,000						13,451,000
								27,042,000
1,025,000								21,684,100
805,000	170,600							21,013,700
770,000	50,000	680,000	04 7 000		375,000			22,949,000
640,000	588,000	850,000	315,000		1,060,000			55,805,500
925,000	72,600	800,000	659,000					83,784,600
795,000	811,000	1,000,000	853,000		1,000,000			53,143,000
900,000	155,000	670,000	772,000		1,100,000			81,067,000
945,000	2,181,000	960,000	1,179,000		400,000			76,724,000
900,000	2,479,000	4,230,000	1,415,000		500,000	4,414,000		79,273,000
1,290,000	4,142,000	4,390,000						88,109,000
850,000	3,570,000	3,850,000	2,034,500					47,699,000
1,022,000	3,492,000	3,860,000	1,953,000					90 213,000
1,503,000	3,165,000	2,550,000	1,000,000					115,771,800
1,310,000	2,378,000	2,620,000	690,000	63,500,000				135,959,500
975,000	3,299,000	3,180,000	900 000	153,600,000			74 700 000	258,314,000
1,010,000 1,200,000	4,096,000	3,805,000 3,815,000	288,000				14,500,000	254,919,000
1,200,000	4,068,000	4,225,000	195,000	168,200,000			19,000,000 $4,500,000$	294,040,000
1,558,000	4,155,000	5,450,000	243,500 496,000	90,000,000		10,393,000 5,928,000	000,000,±	202,959,500 198,859,000
1,108,000	42,912,200	52.200.000	13 652 000	742.300,000	6 145 000	71 583 800	38 000 000	2,235,586,200

The above totals show the number of fry or young fish actually hatched and distributed from the several hatcheries carried on under the department; but there are annually transferred from certain of the hatcheries newly spawned ova and advanced or semi-hatched eggs to other hatcheries. The hatchery at Bay View, N.S.,

is devoted wholly to lobster hatching.

I have had occasion to point out in a previous report that a stricter surveillance over the expenditure in the various hatcheries has been carried out. The results of the fish-culture operations have been far larger during the last four or five years than in any previous period, while with the exercise of greater economy there has been a considerable saving effected. In these efforts to reduce the expenditure, while at the same time the efficiency of work has not been allowed to decline, the co-operation of the officers in this service has been readily obtained and the results as is shown by the tables above referred to, and by the several reports of the officers in charge.

I have the honour to be,

Your obedient servant,

EDWARD E. PRINCE.

NEW WESTMINSTER, 1st December, 1897.

To Professor E. E. Prince, Commissioner of Fisheries for Canada, Ottawa.

SIR,—I have the honour to submit my report for the season of 1897, of operations

in connection with the Fraser River fish hatchery.

On the 7th of January 84,000, semi-hatched Salmon Eggs (O. nerka) were shipped to Honolulu Hawaii, in charge of Mr. Armstrong, of that place. From information received from Mr. Armstrong, after his arrival there, it appears, that although the eggs reached there destination in fairly good condition, yet they all perished before being placed in hatchery troughs. This result of a new and interesting experiment is very disappointing.

During the months of March and April, young salmon (O. nerka) were distri-

buted from the Hatchery, and planted as follows:-

On March	8, H	[arrison	River	2,628,000
do	29, P	it Lake	**** **************	568,533
April	7, E	Iarrison	River	1,300,467
do	15,	do	************	1,431,000
			_	
				5,928,000

Making with the semi-hatched eggs a grand total output of 6,012,000.

On the 27th September, I sent Wm. Roxburgh, foreman, with two men, and the necessary supply of material, for building traps to capture parent salmon, and securing and shipping Ova, to Morris Creek, Harrison River, and on the 3rd of October I received at the hatchery.

1 10000	vou ui	CHO HEC	O11 O1 y a 9000 0000 000 000 0 0000	1,100,000	O Val
On the	5th,	October		988,000	6.6
do	10th,	do		704,000	"
do	13th,	do	***** ****** ******	1,296,000	66
do	15th,	do		1,152,000	6.
do	18th,	do	**********	1,136,000	66

Making a total of 6,472,000

On the 18th I went to Morris Creek, when the last shipment of Ova was made. and closed the work there for the season.

The eggs are in fine condition, and I anticipate a successful season's operations. The boats and plant are being taken care of at the hatchery, and the trays will be lacquered, so as to prevent damage by rust.

> I have the honour to be, sir, Your obedient servant,

JOHN McNAB, Inspector of Fisheries, and Officer in Charge of the F. R. F. H.

NORTH SYDNEY, C.B., 1st December, 1897.

Professor E. E. PRINCE, Dominion Commissioner of Fisheries, Ottawa, Ont.

SIR,-I beg herewith to submit my annual report on the operations of the fish

hatchery located at Sydney, for the present year:—
On the 24th of March last I received at the hatchery from Mr. Sheasgreen, of Miramichi, N.B. hatchery, 500,000 salmon ova in excellent condition. These ova were carefully placed in the troughs and successfully hatched out, and on the 4th. of June I began liberating the young fry in the principal waters in Cape Breton. During the hatching process only a very small percentage of the eggs were found bad. The following are the counties, names of rivers and quantity of fry liberated in each river : --

Cape Breton County.

Trout River, Mira	35,000 25,000 30,000
	90,000
Victoria County.	
North River, St. Anns	50,000 40,000 90,000 20,000 200,000
Inverness County.	200,000
Margaree Rivers	140,000 30,000
-	170,000
Richmond County.	
River Tom, Red Islands	36,000
Total	496,000

The utmost care was exercised by myself and assistants in removing the fry to the rivers, and in liberating them in the most suitable places where they would be free from molestation by other fish. I had occasion to visit both the Middle and Margaree Rivers some thirty days afterwards, and I observed large schools of the young salmon in these rivers quite at home and full of vitality. In stocking the rivers above named I kept in view the drain on these rivers by gill-net fishermen for commercial purposes. Take for instance the adjacent sea coast and tidal waters of the Margaree River. In the season of 1896 there were 26,500 pounds of fresh salmon taken from those waters by gill-net fishermen and exported in ice. This present season the statistics will reveal, I have no doubt, a larger catch. Thus it will be seen the necessity of not only protecting the parent fish in the spawning season when they are ascending to the upper waters, but of stocking the rivers with fry from the hatchery.

Before the hatchery under my supervision can be again operated it will be

necessary to have some extensive repairs made.

In a special report to the department, I gave an estimate of the cost of these repairs. I pointed out in that report the absolute necessity of the repairs being made before the hatchery is again operated. The department, however, informs me that it is unlikely that the hatchery can be supplied from abroad with ova for

next season. If such is the case the repairs are not urgent.

Yet it is unfortunate that a supply of ova from the New Brunswick hatchery cannot be procured for next year. The ova received each year for the past three years from the neighboring province have given excellent satisfaction and the rivers stocked with the fry hatched out from this ova have each season since been literally alive with young salmon, so that practical results should be forthcoming next season, when these fish at the age of four years begin to make their appearance in the rivers which they left when one year old. The salmon fishery is becoming more important year by year in this Island. There are two establishments which now buy salmon from gill-net fishermen, freeze them and later in the season export these fish to the cities of Canada and the United States. Besides these establishments there are individual dealers who engage in the industry and buy salmon from neighbouring gill-net fishermen and export the fish in ice during the fishing season. Thus it will be seen the growing importance of this branch of the fishery and the necessity of keeping up the supply by stocking the rivers.

I have the honour to be, sir,

Your obedient servant,

A. C. BERTRAM, Inspector of Fisheries.

BEDFORD, N.S., 1st Dec., 1897.

Prof. E. E. PRINCE,

Dominion Commissioner of Fisheries, Ottawa.

SIR,—I beg to submit, herewith my annual report of the work at Bedford salmon hatchery for the season of 1897.

On the 7th and 11th November, 1896, 1,300,000 salmon ova were recieved from the Carleton, N.B. Pond, and again on the 24th April last, 300,000 semi-hatched salmon eggs were recieved from the Restigouche hatchery and on the 24th March last, 4,000,000 whitefish eggs were recieved from the Sandwich Ont. hatchery.

All of the above shipments were recieved in excellent condition, were hatched out early in the season, and planted between the 16th April and 12th June into the

waters herein named.

Salmon.

Nine Mile River, Halifax Co	20,000	
Pennant do do	60,000	
Moose do Annapolis Co	180,000	
Annapolis do do	125,000	
Millville do do	125,000	
Lahave do King's Co		
Gaspereaux do do	125,000	
Bear do Digby Co	80,000	
Stewiacke do Colchester Co		
West do Pictou Co		
	60,000	
Caribou do do Sackville do Westmorland Co N.B		
Gaspereaux do do	60,000	
Total	1,450,000	
Whitefish.		
Sandy Lake, Halifax Co	1,400,000 1,400,000 1,200,000	
Total	4,000,000	

It was my intention to plant a quantity of whitefish in the lakes of Cape Breton, Ainsley and Lake a Law, but was prevented from doing so on account of the roads being quite impassable and the steamers not running on the Bras d'Or Lake when

the fish were ready for distribution.

The interior of the hatchery has been painted, the walls tinted, and the ceiling whitened, repairs made to the waste pipes and drains, new fascia boards and spouts placed all around the building, saddle boards put on, and the roof repaired where required, but as the roof is over 20 years old, it will require to be newly shingled in another year.

The work shop and storehouse has been newly shingled and is now in fair order. I found it necessary to make two new floor troughs. The nursing troughs have been patched with tin and coated with paraffine varnish, so that they will probably last a while longer, but before long new ones must be constructed.

I am, sir, your obedient servant,

RAPIDE DES FEMMES ST. JOHN RIVER, FISH HATCHERY, N. B., 1st December, 1897.

Professor Edward E. Prince,

Dominion Commissioner of Fisheries, Ottawa.

SIR,—In accordance with the rules of the department, and in compliance with your instructions: I beg leave to submit herewith my annual report of the operations done and performed at the Dominion Fish Hatchery under my supervision for

the year now soon about to close.

As I have already in a former report referred to the operation of stripping the parent salmon in the Carleton pond, last autumn, it may not be necessary for me again to make any further report thereon; suffice it for me to repeat, that last November, there were placed upon the troughs in this establishment about eleven hundred thousand vivified salmon eggs: and in the month of March an additional supply was received from Sandwich, and Newcastle, Ontario, consisting in 3,000,000 whitefish and 500,000 salmon trout eggs, all of which did fairly well during the period of incubation, and hatched out a good percentage of live fry in the spring, and in due time they were planted in the following named rivers and lakes.

DISTRIBUTION OF WHITEFISH FRY.

320,000 320,000 320,000 320,000 320,000 320,000 320,000 240,000
2,800,000
40,000 40,000 40,000 40,000 40,000 30,000 30,000 30,000 15,000 50,000
455,000
100,000 130,000 350,000 200,000 80 000 40,000

RECAPITULATION.

Whitefish fry	distribute	d.,	2,800,000
Salmon-trout	do	**********************	455,000
Sea salmon	do	***************************************	900,000
		_	
Tota	l number	of fry distributed.	4.155 000

It is most gratifying to me, and will no doubt be pleasing to you to know that the above large number of tender young fry were planted in the several waters berein designated without any appreciable loss, particularly when we consider the extremely long distance they had to be conveyed, you will very easily conceive the amount of care and attention it requires to be in a position to report such gratifying results of the years operations.

INCREASE OF FISH IN OUR WATERS.

It is now pretty generally conceded by all parties, but especially by the sportsmen that artificial fish culture, has not merely kept up the supply, but has caused a murked increase in the number of fish in our rivers and lakes, but to properly establish this fact, good protection is absolutely necessary, a thing, with the exception at the Tobique River, which has been somewhat neglected within his county. All of the foregoing brief report is most respectfully submitted.

I am, sir, Your obedient servant,

CHAS. M. McCLUSKEY, Officer in Charge.

MIRAMICHI HATCHERY, SOUTH ESK, N.B., 1st Dec., 1897.

PROF. E. E. PRINCE, Commissioner of Fisheries, Ottawa.

Str.-I have the honour to submit my annual report upon the operations in

connection with the Miramichi Fish Hatchery during the past year.

As stated in my last annual report, there was 1,648,000 native Miramichi salmon ova placed in this hatchery in the autumn of 1896. In addition to this number 280,000 ova were transferred from the Carleton Pond at St. John by Mr. Alex. Mowatts, making a total of 1,926,000 ova in this hatchery at the time of making my

last report.

The 280,000 St. John salmon ova, although apparently in fair condition when placed in this hatchery, were utterly worthless, and became a total loss early in March, or just about the time that the embryo should begin to show active signs of life. I am of the opinion that this loss was caused by the rough passage they unavoidably received when they were being transferred from the railway to this hatchery. The roads were frozen very hard and rough at the time, and in all probability this rough passage rendered the ova worthless, although they did not all die immediately after being placed in the hatching troughs. The small loss usually experienced at this hatchery goes to show that these ova must have been injured in this way or in some other manner unknown to me previous to the time they were received here.

During the month of March, 500,000 Miramichi salmon ova were transferred in a healthy condition to the hatchery at Sydney, Cape Breton. These were replaced later on by 500,000 from the Restigauche Hatchery. The total loss during the

period of hatching, exclusive of the St. John ova mentioned above, amounted to only 90,000, leaving a balance of 1,058,000 Miramichi salmon fry and 500,000 Restigouche fry to be planted in the following streams:—

	Miramichi fry.	Restigouche.
North-west Miramichi	360,000	350,000
Main South-west Miramichi	150,000	50,000
Little South-west Miramichi	300,000	75,000
Sevogle River	150,000	
Renous River		
Stewart's Brook	23,000	******
Totals	1,058,000	500,000

The fry were invariably planted in a healthy condition and on the best available planting grounds. 300,000 Restigouche fry were planted in the headwaters of the North-west Miramichi, near the Falls. This number is included in the above statement.

After the distribution of fry was completed, the work of putting all appliances in connection with the hatchery in thorough repair, was commenced. The supply pipes, which were considerably injured by the heavy frosts of the previous winter, near where they enter the supply tank in the hatching room, were repaired. The large seew used for towing purposes while procuring parent fish, was thoroughly overhauled and repaired, and several small scows for carrying the parent salmon from the fishing stations to the retaining pond, were built. The retaining pond was dredged and enlarged to nearly double its former size and is now fully capable of containing 600 fish. The interior of the hatchery was thoroughly cleaned and the troughs and trays varnished throughout.

CAPTURE OF PARENT FISH.

During the month of July, I was called upon to report, whether or not it would be possible to supply the St. John and Sydney hatcheries with ova from these rivers this year, as the Carleton pond was not in operation, and feeling confident that this could be accomplished if sufficient netting was put in operation, I answered in the affirmative. But later on instructions were received to proceed with the usual number of nets, and to use every exertion to procure as many fish as possible in order to assist in some measure in supplying the shortage of ova. As soon as these instructions were received and all necessary arrangements made, the work of procuring fish was commenced. Two set nets were put in operation-one on the Northwest Miramichi River and another on the Little South-west Miramichi-and in addition to these, seining was carried on continually above the point where the set nets were situated. The operation on both rivers was very successful and satisfactory. The first fish were taken on September 14th. The total number of fish taken from that date until the nets were taken up on October 28th, was 455. this number, 305 were taken by means of the seine and set net on the North-west Miramichi, and the remaining 150 were taken in the set net on the Little Southwest. The total number consisted of 280 females and 175 males. If the department had authorized the placing of nets on two of the other branches of this river, I have no doubt but that nearly double the number of fish could have been obtained.

COLLECTION OF OVA.

As the fish were in a strong, healthy condition when placed in the retaining pond, there was no loss met with this season. The majority of the female fish were large and gave a good yield of ova. The first fish were stripped on October 18th and the work continued at intervals until November 16th. The greater number of fish were not manipulated until after November 2nd. The total number of ova

procured was 2,020,000, showing an average yield to each fish of slightly over 7,200 eggs. This is the largest number of ova ever obtained at this hatchery in any one season since it was put in operation. Probably as many could have been obtained last year, but it was not considered necessary, as nearly all the other hatcheries were supplied and this one cannot accommodate over 1,500,000 with safety. Moreover the nets were kept in operation nearly two weeks later this season in order to get as many fish as possible to supply the St. John Hatchery. In accordance with instructions received I transferred 603,000 ova immediately after spawning to that hatchery. These ova were transported in good condition—leaving a balance of 1,417,000 in

this hatchery at the present date.

During the month of August, I had considerable correspondence with D. G. Smith, Esq. Provincial Commissioner of Fisheries, regarding the matter of procuring a small supply of trout for breeding purposes. He assumed the undertaking of procuring the parent fish and succeeded in securing and placing forty large healthy fish in an inclosure in the stream that supplies this hatchery, where they remained until ready for manipulation. Mr. Smith obtained the fish in Bartibogue River by means of a small seine, and carried them from there to the hatchery, a distance of about 25 miles, in the large cans that we use for distributing salmon fry. Despite this long journey in comparitively small quarters, the fish were in splendid condition at time of manipulation. There were 25 females and 15 males from which I collected 30,000 ova, showing the average to each fish to be 1,200 eggs. These ova were placed in the hatchery immediately after being taken from the fish, and are progressing favourably up to the present with scarcely any loss. If this experiment is continued another year a more suitable inclosure will have to be provided for keeping the parent fish in after they are netted, untill spawning time. This can be easily arranged at a small cost, as there is ample space in the retaining pond in which the parent salmon are inclosed.

In conclusion I may say that the hatchery and all appliances in connection therewith are in good condition and that no large outlay will be required during the coming year in order to keep everything in good running order. The past years operations have been very satisfactory and successfull, and there is every reason to

look for continued success in future.

Submitting all for your consideration.

I am, sir, your obedient servant,
ISAAC SHEASGREEN,
Officer in Charge.

RESTIGOUCHE HATCHERY, 1st Dec., 1897.

Prof. E. E. PRINCE,

Dominion Commissioner of Fisheries, Ottawa,

SIR,—I beg to transmit herewith my 15th annual report upon the operations of

the Restigouche Hatchery as conducted under my charges

Three millions of eggs were laid down in the hatchery troughs in autumn of 1896, 750,000 of these were transported to the Miramichi and Bedford hatcheries in the semi-eyed stage during the month of April. The balance of the fry being distributed in the Restigouche and tributaries as follows:—

Kedgwick 70 miles from Hatchery	$250,000 \\ 800,000 \\ 490,000 \\ 550,000 \\ 10,000$
	2,100,000

Grand total semi-hatched eggs and fry, bred in hatchery 1897, 2,850,000. I have heard fishermen, guardians and scowmen say, the young fry were to be seen in great numbers along the various reaches of the river, where they had been artificially planted a short time previous. The young parr (two years old) on their emigration to the sea were never more numerous than they were this year. So much was this the case, they very often became a nuisance to the angler, and a great many are destroyed in this way.

The hatchery was throughly renovated during the past summer. All the trays and troughs washed, and re-varnished, and all decayed troughs re-placed with new ones and the institution put in proper condition for the reception of the ova this

Autumn.

GOVERNMENT NETS AT HEAD OF TIDE.

The re-construction of the retaining pond began on the 15th of May, and although much damage was done to the plant caused by the great ice flow, the pond was made ready for the reception of the parent fish by 1st of June, and the two government nets immediately placed in fishing order, as soon as time would permit.

Below will be found a detailed statement of the numbers of fish caught, and dates upon which the nets were lifted and fished. These figures are taken from the two daily diaries which were kept, and can be relied upon as being correct.

une 4	3 0 0 0 7 13 7 5 0 0 15 4 15 7 8 0 0	4 5 2 5 0	night until Tues-
lo 6 lo 7 lo 8 lo 9 lo 10 lo 11 lo 12 lo 12 lo 14 lo 15 lo 15 lo 16 lo 17 lo 16	0 0 0 7 13 7 5 0 0 15 4 15 7 8 0	4 5 2 5	from Saturday night until Tues day morning.
do 7 do 8 do 8 do 9 do 10 do 11 do 12 do 13 do 14 do 15 do 16 do 16 do 17 do 18 0 0 7 13 7 5 0 0 15 4 15 7 8 0 0	4 5 2 5	day morning.	
lo 9 lo 10 lo 10 lo 11 lo 12 lo 13 lo 14 lo 15 lo 16 lo 17 lo 18	7 13 7 5 0 0 15 4 15 7 8 0	4 5 2 5	day morning.
10 10 10 11 10 12 10 13 10 14 10 15 10 16 10 17 10 18	13 7 5 0 0 15 4 15 7 8 0 0	4 5 2 5	
lo 12 lo 13 lo 14 lo 15 lo 16 lo 17	5 0 0 15 4 15 7 8 0	4 5 2 5	
do 13 do 14 do 15 do 16 do 17 do 18	0 0 15 4 15 7 8 0	4 5 2 5	
10 14	0 15 4 15 7 8 0	4 5 2 5	
lo 16lo 17lo 18	4 15 7 8 0	4 5 2 5	Sunday no fish unti
lo 17	15 7 8 0 0	5 2 5	Sunday no fish unti
lo 18	7 8 0 0	2 5	Sunday no fish unti
do 19	0 0	5 0	Sunday no fish unti
lo 20	0	U	
lo 21	25	0	Tuesday morning.
lo 22		9	
lo 23 lo 24	8 9	8 7	
lo 25	7	9	
lo 26	$\frac{22}{0}$	0	O13
lo 28	0	0	Sunday.
lo 29	27	4	
lo 30ly 1	10	6 5	
lo 2	13	0	
0 4	. 14	5	G 1
0 5	0	0	Sunday.
o <u>6</u>	0	2	
o 7	$\begin{array}{c} 19 \\ 0 \end{array}$	$0 \\ 2$	
0 9	6	0	
0 10	$\frac{2}{0}$	0	0 1 7 7 7
o 11 o 12	0	0	Sunday nets lifted
0 13	7	0	
o 14 o 15	5 0	$\frac{4}{0}$	
o 16	8	1	
o 17	3	1	CI 1
o 18 o 19.	0	0	Sunday.
0 20	0	0	
o 21	0	0	
0 23	3	ŏ	
0 24	$\frac{1}{0}$	0	Cundon
o 25 o 26	0	0	Sunday.
o 27	2	Ó	
o 28 o 29	1 0	0	
0 30	2	0	
o 31	2	0	
	289	78	

It will be observed from the above table the nets are not set from Saturday night until Monday morning, and as no fish enter the small mesh nets in day time it only leaves five days in each week for actual fishing of the nets, which are regularly lifted each day when there are fish in them notwithstanding certain reports to the contrary. A loss of a few fish as usual occurred from the fungi growth after being deposited in the pond. So soon as it is discovered that an injured fish will not recover it is removed from the pond. In pure salt water ponds the fungus is killed in its first stage—but at Restigouche it is entirely fresh water where the fish

are confined, and a few will be lost.

The gathering together of the fish and separating each sex into the divisions began on the 18th of October, and stripping on the 20th; 322 fish were manipulated, 182 females and 140 males; yielding—1,500,000 eggs. A large number of the female fish were under the ordinary size. I should say they were four year old salmon reproducing their species for the first time. Thus the average number of eggs per female was somewhat reduced. The eggs were carefully packed in the hatching trays at the pond, and safety conveyed to the hatchery by water, and deposited in the troughs in very fine condition. The manipulation of the fish continued up to 1st of November all yielding eggs, and were again returned to the river in good condition.

NEW PLANT REQUIRED ANOTHER YEAR.

The institution with all its equipment is in very fair condition, some slight repairs however will be necessary for another year. A few more new troughs and two new distributing crates for the fry, and perhaps a new supply pipe will be wanted.

TIDE HEAD POND.

A few new nets and a couple more pontoons with another fishing canoe, and 500 net stakes will be necessary. Total cost about \$100. This plant will be required for next spring's operations.

GENERAL REMARKS.

Canadian and United States newspapers made considerable reference to the poor run of salmon in the Restigouche this year. While it was an off year to a certain extent, there were some very good catches made, and upon the whole the anglers should be well satisfied. The following are a few of the scores made which by

chance came under my notice, viz.:-

Mr. Frank Thompson and party in two weeks captured 50 salmon; J. S. Kennedy and party, Braudy Brook, 45; Messrs. Mitchell and Ayer, (not club members,) 87, Mr. Ayer, in one day, 12; Mr. Dawson's private waters produced 70; Mr. Leech and party on the Upsalquitch, 100 in two weeks, many weighing 25 pounds. Such large fish in the Upsalquitch is undoubtedly the direct results of the hatchery. I might instance many more good scores, but the above is sufficient evidence to show that there was a fair run of fish in the rivers, and all the guardians report a good showing of breeding fish on all the bars and shallows this fall.

When all the nets and all the angling is taken into consideration, one might well pause and ask how the balance of nature or salmon supply is to be maintained. It is no unusual occurrence to find 100 anglers scattered over the Restigouche and its tributaries at one time; each wanting eight fish per day, the limit fixed by the club. The fish are pursued to the very head waters of the streams even the Kedg-

wick and Patapedia were leased and fished this year.

Then there are nets upon nets extending 200 miles along the coast. The best catches of Restigouche salmon are now generally made at Green Point, on the Gulf outside the mouth of the Baie de Chaleurs. A few years ago there was not a

net within miles of this place. In addition to this, should some disturbing element such as an immense ice flow, as there was last year to change and upset the natural channels of the rivers and spawning beds, and crush millions of the one and two year old fish; again it has been clearly demonstrated that other larger fish and even the seals prey upon and break up schools of salmon in the sea, scattering them and entirely changing their course. This year the seals even followed the salmon forty miles up the river, and were seen quite late in the summer killing salmon in the pools. Is it any wonder then there would be an off year occasionally?

And now that angling has become such an extensive pursuit and the commercial value of salmon has reached such a high figure, being largely exported in the frozen state to the European markets, the question arises, what steps can best be taken to

meet and offset these destructive devices conserve a most valuable fishery?

I would then urge such co-operation as may appear best, of Dominion and Provincial officers with the club guardians in the inland waters of the Restigouche, to maintain a better system of guardianship, as a certain amount of poaching is done on the heads of the rivers each year. I would also suggest that the output of fry from the hatchery be increased, as there is abundant evidence upon all sides that the hatchery has been the main factor of increasing and keeping up a uniform supply of salmon in the Restigouche and its tributaries during the past 10 years. I am also convinced it would be a wise policy to encourage the capture of trout and eels in the Restigouche at all times, as they are very destructive to the salmon.

Unless the above reforms are carried out, and if angling and netting go

on without restriction, I fear the salmon fishery will decline in the future.

I am, sir,
Your obedient servant,
ALEX. MOWAT,
Officer in Charge.

Gaspé Hatchery, Province of Quebec, Gaspé Basin, 1st December, 1897.

Prof. Edward E. Prince, Commissioner of Fisheries, Ottawa.

SIR,—I beg to submit the annual report on the operations at Gaspé Fish Hatchery, for the year 1897. The ova remained in a healthy condition during the time of hatching. A loss of only forty thousand during the winter months being reported.

DISTRIBUTION.

Distribution commenced on June 10th and was completed July 13th. The fry were planted on the different grounds in a very healthy condition, as far up the river as possible. The fry were conveyed from the hatchery in canoes, and on account of slow means of transport much longer time was taken than would otherwise have been the case. Fry were distributed in the respective rivers, as follows:—

Dartmouth	River	600,000
York	*******************************	200,000
St. John	4444047	300,000
	Total	1,100,000

REMARKS.

In connection with the hatchery, I may say that the necessary repairs were carried on as usual, until orders were received to cease work for this season. The

interior of the building was cleaned and the work generally done.

On application for the necessary supplies, amounting to \$69 for preparation for the catching of parent fish, your department proposed that instead of securing the necessary supplies of eggs as heretofore by the capture of parent fish by the use of the trap-net, that they should be shipped from the Restigouche or Miramichi hatcheries, but as no eggs could be obtained from the places above mentioned there is no supply of eggs this winter.

In preparation for the operations next spring, I would strongly recommend that a stand of nets be purchased near the mouth of the Dartmouth River so that the

required number of parent fish might be captured.

I would also recommend that the necessary repairs to the hatchery should be completed during the winter months.

I am, sir, your obedient servant,

HENRY DAVIS,

Gaspé Hatchery.

Tadoussac, 1st December, 1897.

Professor E. E. Prince, Dominion Commissioner of Fisheries, Ottawa,

SIR,-I have the honour to submit my annual report upon the operations of the

Tadoussac Hatchery.

A successful hatch of salmon fry resulted from the largest crop of eggs ever collected for the Tadoussac Hatchery in the fall of 1896, and the distribution was made as follows:—

Baude Chisholm A Mars Jacques Cartier Murray Mowat's Lakes	70r	$\begin{array}{c} 512,000 \\ 560,000 \\ 992,000 \\ 200,000 \\ 150,000 \\ 40,000 \\ 768,000 \\ 50,000 \end{array}$
	al	

The largest part of the salmon fry has been carried to the rivers by carters, and a small part by the Richelieu Company. It has been impossible to make any arrangement, as usual, with Mr. Sturton for the services of his tug boat "Forest." The Murray River has only received a portion of the fry, on account of the late date of the requisition and the instructions sent to me late in the season. It is impossible to make a large distribution of fry in the Upper Saguenay River by the Richelieu boats, we lose too much time, we require a tug boat, as I have explained to the Deputy Minister on his visit to the Saguenay River last summer.

The capture of parent salmon was carried on this season with the only "Point Rouge" fishery, but it will be better to continue to keep our two government

fisheries, to be sure of a good supply of parent salmon and in case to be in position to help other hatcheries, as the thing has been wanted last summer. The "Point Rouge" fishery took only 360 salmon, the fishing being bad all over. Of the 360 salmon 230 were females and 130 males. The 230 females gave 2,413,000 eggs, a little over 10,000 each. The spawning time was over by the 13th of November. All the parent salmon were liberated in good condition. In September, by instructions of the Deputy Minister, I went up to Lake St. John, to assist Mr. Richard Pollett, undertaking the management of a private fish hatchery for H. J. Beemer, Esq. The site of this new hatchery has been well selected, close to a fine stream of pure water. Beside the stream, a large ditch, has been cut along the side of a hill to supply the hatchery with cold water from many sources on the hill-side to be specially used in the hot season. I had occasion to visit many splendid rivers, well adapted for the breeding of sea salmon, but this is the most favourable I ever saw, the young salmon having a beautiful way of reaching the salt water by the grand discharge of the Lake St. John and the Saguenay River. Mr. H. J. Beemer has built a pretty large hatchery, in the hope of receiving a certain quantity of salmon eggs. I recommend that a good allotment be given him every year. I consider that there is no better place for the breeding of our sea salmon. By a letter from the manager of Mr. Beemer's hatchery, I think this gentleman was under the impression that the department was to give him a certain quantity of salmon eggs. Our hatchery is in good order and does not require any repairs for the present. I hope that something will be done next year for pulling down the old hatchery.

> I have the honour to be, sir, Your obedient servant,

> > L. N. CATELLIER,

Magog, 1st December, 1897.

Prof. E. E. PRINCE,

Dominion Commissioner of Fisheries, Ottawa.

Sir,-I have the honour to submit my report upon the operations at the Magog

Hatchery for the year 1897.

On the 19th March there were received at the hatchery 3,000,000 whitefish eggs, and 1,500,000 salmon-trout eggs, which were successfully hatched and distributed as follows:

Salmon trout.

Massawippi Lake, County of Stanstead Lake Megantic, County of Megantic. Orford Lake, Counties of Brome and Sherbrooke. Brome Lake, County of Brome. Key Pond, County of Sherbrooke. Lake Magog, Counties of Brome and Stanstead. Spider Lake, County of Brome	$120,000 \\ 250,000 \\ 100,000 \\ 125,000 \\ 675,000$
Total	
10tat,	=======================================
Whitefish.	
Massawippi Lake, County of StansteadLake Megantic, County of Megantic.	

Massawippi Lake, County of Stanstead	400,000
Lake Megantic, County of Megantic	200,000
Orford Lake, County of Brome and Stanstead	500,000
Brome Lake, County of Brome	250,000
Key Pond, County of Sherbrooke	250,000
Lake Magog, County of Brome and Stanstead	1,400,000
Total	3 000 000

The distribution of fry continued from 3rd May to 21st June, and as the eggs

and fry were in splendid condition, there was practically no loss.

The water supply in this hatchery is the best, in my opinion, I have ever seen on account of its perfect purity. The instructions from the Department of Marine and Fisheries were that I should send from 10,000 to 50,000 salmon-trout fry from the Magog Hatchery to Spider Lake at the request of Mr. Lucien Huot. I was able to send only 5,000 for the following reason: all the fry in the hatchery were planted previous to receiving instructions. Very good accounts of the results of the fry planted have been received, in Lake Magog this autumn. I have seen larged quantities of whitefish on the spawning beds. Certain repairs which are necessary have been reported to the department.

> I have the honour to be, sir, Your obedient servant,

> > ALEX. FINLAYSON.

OTTAWA, ONT., 27th Nov., 1897.

Prof. E. E. Prince, Commissioner of Fisheries, Ottawa.

SIR,—I have the honour to submit my annual report of the operations carried

on at the Ottawa Hatchery during the year, 1897.

On the 22nd November, 1896, 1,200,000 salmon-trout eggs were received from the Newcastle, Ont., Hatchery, and in March, 1897, 3,000,000 whitefish eggs were also received from the hatchery at Sandwich, Ont. The eggs from both these hatcheries were in excellent condition.

The fry hatched out strong and healthy in the months of April and May, 1897. The work of distributing the fry was entrusted to Mr. Andrew Halkett, and Mr. J. D. Sutherland, both officials in the Fisheries Department. I am pleased to inform you that the work was done in a very satisfactory and successful manner. The fry having been deposited in the following named waters:—

WHITEFISH. 480,000

Clear and Carp Lakes. Patterson Lake. Lakes, No. 6 and 7, Joliette County, Que Pine Lake. Charleston Lake Otter Lake	320,000 320,000 320,000
Little "	240,000 200,000
Total	2,920,000
SALMON TROUT.	
Meache's Lake Sloats Lake Lac De Sable and Lac à La Truite, Ste. Agathe, Que Mississippi Lake Bass Lake Missisquoi Bay Clear Lake Doré " Rock " Pine " Patterson's Lake, Ont Lake No. 7, Joliette County, Que Source, and Smoke Lakes St. Jovite, Que Clear and Carp Lakes St. Maurice, Que Allan Lake	100,000 90,000 80,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 60,000 50,000 40,000
McKay's Lake Total	

The hatchery is in good order and repair for the coming season's work. Owing to the spawning season being later this fall than usual, I have not yet received the

usual supply of salmon-trout eggs.

The Canadian Fisheries Exhibit and Hatchery have been visited by over 22,000 persons during the year. The aquaria, which are now being repaired and stocked with living fishes, will prove an additional source of interest to the numerous visitors to the Fisheries Exhibit and Hatchery.

I am, sir, Your obedient servant,

JOHN WALKER,
Officer in charge of Ottawa Hatchery.

BEDFORD, N.S., 1st December, 1897.

Prof. E. E. Prince, Dominion Commissioner of Fisheries, Ottawa.

SIR,—I beg to submit my annual report on the operations at the Bay View

Lobster Hatchery for 1897.

On account of the backwardness of the season, fishing did not commence until about the 15th of May, and on the 20th the first eggs were received at the hatchery. But very few were collected until the 2nd June, when the steamer "Diamond" was employed to collect from the factories around Pictou Island.

Lobsters were quite plentiful, and the pack of some of the factories was larger than that of the previous year, but for some reason unknown to me berried lobsters were scarce during the whole season, and in order to fill one half the incubators I

found it necessary to seek new grounds to obtain eggs.

On the 8th June 1 went to Canso, carrying with me a number of boxes which I had constructed during the winter for the purpose of carrying eggs a long distance, which I distributed around among the factories there, giving the necessary instructions to the employees as to managing them, and returned to the hatchery.

On the 18th the "Diamond" went to Canso, returning on the following day with 10,000,000 eggs in splendid condition, and a much larger quantity would have been received had the traps not been broken by a violent storm which occurred at

that time.

Fry first appeared in the incubators on the 17th June, distribution commenced on the 26th June, and ended on the 5th July, when 90,000,000 young lobsters were successfully planted.

Last spring, by permission from the department, I had constructed a new supply

tank outside the building, which proved satisfactory.

The hatchery is in a good state of repair, except some of the waste pipes, which will require to be renewed at a trifling cost, and if the wharf receives no damages by ice during the coming winter, work may be commenced early in the spring.

This hatchery has been in operation seven years, and if any benefit is to be derived from artificial lobster culture it should be seen now, and I am pleased to learn from many of the packers and fishermen who have been anxiously watching the operations that they now see good results, and believe that lobsters planted from the hatchery have added largely to their supply

I am, sir, your obedient servant,

ALFRED OGDEN.

Newcastle, 13th December, 1897.

Prof. E. E. PRINCE, Commissioner of Fisheries, Ottawa.

SIR,-I have the honour herewith to submit a report of the fish cultural

operations carried on at this hatchery during the past year.

The following schedule will show the points of distribution, also the number and kinds of fry placed in each locality last spring:—

Whitefish.

Lake Ontario, at Hamilton	300,000 300,000 300,000 300,000 300,000 300,000 300,000 300,000 300,000
	2,700,000
Salmon Trout.	
Georgian Bay, Collingwood do do Wiarton Lake Simcoe, Barrie. do Couchiching, Orillia do Ontario, Hamilton do do Toronto do do Cobourg do do Picton. do do Kingston do do Newcastle. Bay Quinté, Belleville. Lake Huron, Southampton. Pond in Lambton County. Lakes, North Hastings District.	100,000 200,000 100,000 100,000 100,000 100,000 100,000 100,000 175,000 100,000 25,000 100,000

Schedule showing total number of fry and semi-hatched eggs distributed from this hatchery during spring of 1897.

Whitefish Salmon trout Eyed eggs to Magog do St. John	1,500,000 2,000,000
Total distribution from Newcastle	6,700,000

I beg to inform you that the fry was all deposited in the different waters in the

very best of condition.

In September, having received instructions from your department to proceed to Sault Ste Marie for the purpose of gathering a supply of salmon-trout spawn for this and the other hatcheries, I went there on September 15th with two assistants. I found that the fishing was all carried on about 130 miles up the lake from Sault Ste. Marie. I was therefore compelled to wait three days for the arrival of the tug before we could proceed to our destination, where we arrived on the morning of 20th. Fish were scarce, the catch not being more than half as good as last season. They were just beginning to spawn. I therefore assigned the men to their different places with a view of securing a supply, but up to the 20th of November only succeeded in collecting some 1,500,000. I saw that as the fish were getting scarce it would be impossible to get a full supply. I at once asked your department for permission to purchase and set a pound-net at Wiarton in order to secure a full supply if possible. It was set on November 3rd, and fished until December 2nd, and we succeeded in obtaining 2,350,000 eggs.

I must inform you that of the 1,500,000 ova gathered in Lake Superior, at least one half turned bad before my return home. Several causes are given for it, first, the fish were caught in gill-nets and cannot be as good for spawning purposes as fish that are caught in pound-nets; second, the water is very cold in Lake Superior, and in taking the eggs out of cold water and putting them into the warmer waters further south must certainly have a bad effect on them. The United States Hatchery

officers lost their first two shipments of eggs, through the same cause.

Whereas in getting eggs at Wiarton the fish do not start to spawn for at least one month later, I would therefore suggest that your department purchase one more pound-net and set them both near Wiarton or vicinity, which, I think, would be found the most economical way of gathering spawn.

There is now laid down in this hatchery 3,109,000 salmon-trout eggs which are

doing well at the present time.

In regard to repairs, a new floor on the hatching room and a new set of hatching troughs are required in order to put the hatchery in proper condition to do the work.

I have the honour to be, sir,

Your obedient servant,

JOHN KENEFICK.

SANDWICH, 14th December, 1897.

To Prof. E. E. Prince, Commissioner of Fisheries, Ottawa,

SIR,—I beg to submit my annual report of operations connected with the above

hatchery during the past year :-

As stated in last year's report this hatchery contained 95,000,000 whitefish eggs, from which were turned out 87,000,000 young fry and semi-hatched eggs which were disposed of as follows:—

EYED EGGS.

Ottawa, Ont	3,000,000
Newcastle, Ont	
Magog, Que	
Bedford, N. S	3,000,000
St. John, N. B	3,000,000
_	

Total...... 15,000,000

YOUNG FRY.

Point Edward, Lake Huron Mitchell's Bay, Lake St. Clair Peach Island, " Belle Isle, Detroit River Fighting Island, Detroit River. In bay below Fighting Island Stony Island, Detroit River. Bois Blanc Island, Detroit River. In Lake below Bois Blanc Island Pigeon Bay, Lake Erie. Bar Point, " Colchester, " Kingsville, " Leamington, " Rondeau, " Port Stanley, " Hamilton, Lake Ontario. Niagara, " Toronto, "	3,000,000 3,000,000 3,000,000 5,000,000 4,000,000 4,000,000 5,000,000 5,000,000 3,000,000 1,000,000 1,000,000 1,000,000 1,000,000
Niagara, "	
Toronto, "	1,000,000
In river at hatchery	20,000,000
Total	72,000,000

These fry were placed in the water at the above named points in a good healthy condition.

This fall we have in the hatchery 95,000,000 whitefish eggs which are in first class condition, and from pre-ent appearances the most encouraging results are expected.

The total catch of fish this autumn was 9,476, accounted for as follows:—

	, ,	
Liberated	######################################	6,376
Sold	######################################	2,860
Salted	/5454466 44466/./27653446166 #################################	120
Lost	+20000 4.0 ADD 18080 #3844000000000 0 000 00000 00000000000000	100
Hotel Dieu	(Hospital)	20
	_	
	Total	9,476

The above figures show that a smaller number of fish were taken this fall than last. We did not require so many this year from the fact that the fish were in better condition when we caught them, as they were almost ready to spawn when taken. The fishing was very good when we finished.

The fish never were known to be so late in coming into the river. Eggs were first brought into the house on the 22nd day of November, about three weeks later than previous years. I have repaired the piers, put them in good condition and am of opinion that they will last for three years at very little expense. I have lifted the shanties on the piers this fall in charge of the lighthouse keepers of Grassy Island, Mamajuda light and Mr. Fountain, who has charge of Fighting Island. My object in this changing the custom of the last few years in this respect was solely for the purpose of saving expense.

Respectfully submitted.

I remain, sir, your obedient servant,
WM. PARKER,
Officer in Charge,

ANNEX 1.

REPORT ON OYSTER CULTURE BY THE DEPARTMENT'S EXPERT, 1897.

OTTAWA, 31st December, 1897.

To the Honourable
Sir Louis H. Davies, K.C.M.G.
Minister of Marine and Fisherics,
Ottawa.

SIR,—I have the honour to submit my report for the season of 1897 on oyster culture. On the opening of navigation I left Ottawa for Charlottetown, P.E.I., where I took charge of a small steamer for the purpose of examining the several areas visited by me during the season's work.

Shediac Oyster Beds.

On completing my examination of the above beds, I found they were clean and free from eel grass. Where the grass has been thoroughly rooted out there does not

seem to be any reappearance of the same.

The oysters are growing in a very satisfactory manner. On bed No. 1 which was first planted, the oysters have developed until they are now in fine condition and ready for market. From 150 to 300 oysters can be taken at a haul of the dredge, both oysters and soil are clean and free from silt, and several young oysters can be found varying in size from last year's spat up to full growth. Several oysters were removed from stones which were used as sinkers for the brushwood, measuring from $3\frac{3}{4}$ to $3\frac{3}{4}$ inches in length. Brood oysters of various growth are also to be found attached to oysters, sticks, stones and shells, the oysters are of excellent quality and in healthy condition.

On bed No. 3 they are not quite so large, but are well developed and in good condition; most of these were transplanted from Richmond Bay, P.E.I., they have thickened well, and I can see every sign of growth. Young oysters are found in very fair quantities. This bed is also clean, in good condition, and the oysters

are looking very healthy.

On bed No. 2 the oysters are smaller and not so numerous, this is owing probably to the area lying close to the southern boundary line, and oysters have been taken from this bed by poachers during the night-time. Since visiting these beds and just previous to my return here, several residents of the locality have informed me that poaching is quite prevalent on all the beds. I have asked everybody who has given me this information to supply proof in order that action may be taken against the guilty parties, but while they are satisfied that poaching is quite common they do not wish to take any active part which would lead to conviction.

I also examined some of the uncultivated areas. These beds are gradully becoming covered with sediment and eelgrass, which will eventually destroy them, as the eelgrass grows so long during the summer months, collecting sediment on these beds. As the winter approaches the grass dies off and either settles or decomposes on the beds, or is carried on shore by the wind and tide. Oysters of all sizes are however to be found; I have not dredged a single uncultivated area without

finding oysters, to a certain extent.

Unsolicited reports have been brought to me by different fishermen that oysters are now to be found at various distances from the reserve. This is no doubt the result of the spat drifting from the location of the parent oyster, they were found last year by myself outside the reserve as shown in my previous report.

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BAY DU VIN.

I was instructed to examine this area last year, but owing to the lateness of the season was unable to do so then, but have given my attention to it this year.

Oysters are to be found around the shores of the bay on both sides in a depth of water varying from about five to fifteen feet. They are found on the west, south and east sides of Bay du Vin Island and all around Egg Island, with several beds off shore nearly down to Fox Island; this forms the north side of the bay. The south side of the bay where oysters are found commences at French Village at the eastern end following the shore running west as far as Point auQuart, including Vin and Black rivers.

Oysters appear to be scattered over a very large area. As the water deepens very gradually, the bottom in several places is of a clear sandy soil with a few scattered shells. Oysters and brood are to be found in very fair quantities, they are single and are growing over the whole area. The greatest proportion of oysters taken during the examination were small ones, there being a great many more brood than other oysters, which is a very healthy sign as it shows the smallones are there to replace the larger ones as they are taken. At a greater depth than fifteen feet soft mud is to be found which gradually deepens from both shores forming a wide channel between the main land and the islands.

Oysters that are taken from deep water are of a superior quality to those taken

from beds in shallower waters, the latter being of quicker growth.

There are some shallow solid oyster beds composed of shells; these are in most cases thickly covered over with mussels, the oysters that are found there are poor in quality, as the mussels have over-run the beds. Weed and eelgrass also grow in large quantities on the flats, but where they exist only in small quantities, oysters are to be found. They are also found on the outer or north side of Egg Island which consist of extensive flats, the bottom is composed of sand, stones, shells and eelgrass; large quantities of oysters have recently been picked from there by hand, the fishermen wading in the water to obtain them when the tides are low.

West of Bay du Vin Island on the south shore round to Point au Quart, the nature of the bottom is rougher and is composed of large stones and rocky ledges; very little fishing is carried on here owing to the nature of the soil. Some very good oysters were found around the shores in a depth of water varying

from 9 to 13 feet.

In Vin River (lately occupied by Mr. Hatton of Montreal) large quantities of young oysters were found growing in the channel up as far as the bridge, but above it the soil is composed of hard mud or sand with bark, chips and logs covering the bottom; no live oysters were found, but in places shells could be seen showing where experiments had been carried on. One of the men employed by Mr. Hatton, accompanied me, and pointed out the different areas where experiments had been made. I am of the opinion that the bottom or bed had not received a sufficient quantity of cultch previous to the oysters being placed there, the settlings of the river had drifted down and smothered the stock which had been planted. Below the bridge the soil was cleaner, the bottom is composed of shells and shifting sand.

In Black River oysters are of very rapid growth, thin shells, long and inferior in quality, the soil is of a softer nature, large quantities of soft mud are found here, and the bed of the river has been very much cut to pieces by mud diggers. Very little mud digging appears to have been carried on in any other part of the bay, unless it was on some shallow extinct bed which had grown nearly to the surface of the

water.

This area requires protection, and the inhabitants are anxious that it should be protected in such a way that they will be able to fish during the fishing season. This could be done by dividing the area in two sections, making the channel of the bay the dividing line; the marks of the division should be from Gardner's Point to the leading lights on the middle of Fox Island. Fishing to be done on the south

shore the first year, and on the island area or north shore the following season. I would respecfully suggest that immediate action should be taken in this matter by the department which would be beneficial to all concerned.

Complaints were also made that strange schooners belonging to other ports will come and fish on these beds bringing with them a crew of about eight or ten men. These vessels come already provisioned; they will take away large quantities of

oysters irrespective of size, which must be very detrimental to the beds.

I would strongly suggest while these boats or schooners are loading their oysters that the fishery officer of the district be instructed to visit them daily to inspect and examine the class of oysters that are shipped, and insist on the size limit being maintained, under a penalty of their oysters being seized and their crew fined. This should be immediately stopped, as it not only robs the beds of the coming stock, but the public at large in other cities are being deceived as the small oysters are sold as Caraquette oysters (they being smaller in size), they are also taking an undue advantage of an honest fisherman who returns small oysters to the water.

TRACADIE, N.S.

Upon the completion of my examinatian of the beds of Bay du Vin I proceeded to Tracadie, N.S., to inspect the grounds which were previously cleaned and planted by the department, and found the bed to be in a fairly clean condition, very little sediment having rested upon it. It was also clear of eelgrass with the exception of a very small quantity on the inside. A slight percentage of death was noticeable; this may be attributed to the warm weather which existed when some of them were laid last year, also to breakage in transit, &c.; the average is not more than was to be expected under the circumstances. The oysters are looking healthy and a growth is to be noticed. I cannot say that I have seen any oysters of last year's spat, this probably might be checked through transplantation; but on examining some of them I found they were full of ripe spawn, and I am in hopes of some resting upon the beds this season.

I also visited the West Arm and found the oysters were very scarce owing to excessive fishing in the past. These oysters were also full of spawn. The weather in the spring of this year has been very cold, wet and backward, which would check the oyster spawning to a great extent. When these oysters were examined the weather was very hot. The beds are now clean, free from weed and sediment, and there is every prospect of the beds turning out successfully.

BRAS D'OR LAKES.

After inspecting the beds at Tracadie, I proceeded to the Bras d'Or Lakes, C. B., and examined the oyster areas in the locality of Malagawatcht Inverness County, comprising River Dennis, Seal Cove, Malagawatch and Orangedale Bays, Boom, inside and outside of Little Crossing, McKinnon's harbour, and the shores around

the islands and coves in the said bays and rivers.

Oysters are to be found thinly scattered over the whole of the above area, along the shores, in a depth of from eighteen inches to 10 or 11 feet water. There are really no beds, but as the oyster spawn settles on the bottom, the largest portion of it is lost on account of the weeds and eelgrass being so thick, this eelgrass also causes a sediment to fall upon the bottom, there being very little tide, in most places not sufficient to carry off the settlings which are deposited on the bottom by the rivers and streams emptying themselves into the larger bodies of water. The soil is varied, in some places hard stony ground is found, in others it is sandy, gravelly, clay or hard mud and soft mud, and in nearly all cases covered with eelgrass. The oysters taken are of good size and of a delicate flavour. The size varies. Very few oysters are taken beyond a depth from which the bottom cannot be seen. The water is clear, as a rule, the bottom being easily visible at a depth of 6 or 8 feet from the surface. Single handled rakes are generally used with teeth from six to eight inches long, to enable them to work through the eelgrass, also for

working in the mud. An instrument called a dip-net is also used. This consists of a circular or oblong band of iron about 8 inches in diameter, and when they are oblong will have a depth of 12 inches by 8; at the back of this is attached a small net made of either wire or twine, and fixed to a pole about 10 or 12 feet long for a handle; when an oyster is seen from the boat it is scooped into the dip-net. At times when there is wind and it is difficult to see the bottom, some of the fishermen will sprinkle oil on the rough water around their boat enabling them to see the bottom more clearly.

In River Dennis oysters grow very fast, attaching themselves to logs and stumps lying on the bottom. The oysters are well shaped, full and clean, but are of little commercial value, as the shells are very soft and the water fresh or slightly brackish. The bed of the river is muddy and in some places sandy, no oysters were growing anywhere but on the sunken logs and sticks of which the river is full, they are in

from three to about eight or nine feet of water.

Stony Point which divides Malagawatch Bay from Orangedale Bay is a large flat on the south side, the bottom is clean owing to the strong tide running through the narrow entrance, large numbers of small oysters were noticed here, the scarcity of large ones is no doubt due to their being caught as soon as they are large enough, also to the shallowness and clearness of the water which renders it easy to secure them.

Most of the shores are covered with eelgrass, although places are to be found

where there are clean spots or patches with oysters upon them.

No oysters were found at a greater depth than about eleven feet of water, although I examined the middle of the bays and found between four and five fathoms, the bottom consists of firm mud and clay, large quantities of mussels are found to

abound here, they grow on a firm clean soil free from eelgrass.

One thing I particularly noticed during the examination was the large quantity of oyster spat that had attached itself to the live eelgrass. When I first noticed this they were not larger than the head of a pin, and could only discern them by the aid of a pocket-lens, the growth was rapid as the water was warm and shallow, and before I left the spat had become so heavy that it was sinking the eelgrass to the bottom where it lay among the dead matter and sediment, the larger portion of it dying through the bottom being so dirty.

Large quantities of this young spat could be saved artificially until it had

attained a growth to be able to take care of itself.

Oyster spat was also discovered attached to the branches and twigs of trees which overhung the banks of the rivers and creeks, also upon stakes fixed in the water for the purpose of either tying boats or nets to, the water in these creeks was warm and sheltered, and the growth was very rapid.

At Wycocomagh the areas are similar to those of Malagawatch and Orangedale,

although I believe the oysters are scarcer at the former place.

CARLETON, BONAVENTURE COUNTY.

The area here consists of a Barachois containing about 471 acres; chiefly flats with a depth of water varying from 18 inches up to 5 or 6 feet, with a rise and fall

of about 6 feet spring tides.

This area is at present under the control of a Quebec company who are improving the grounds for the purpose of cultivating oysters. The entrance to this area is through a narrow inlet of about 200 feet in width. A dam is being constructed with five sluice gates, the length of it is about 230 feet long which reaches opposite shores above high water mark, it is being very strongly built of heavy timber and closely piled all round the outside. The narrowest part of each buttress is 17 feet wide, with pointed abutments between each gate making the widest part about 34 feet, and a distance of 35 feet between each gate or sluice. Large quantities of rock and stone are being placed both inside this wooden structure, which is afterwards to be filled in with shingle or gravel, making it solid and perfectly water-tight, and,

on the outside and inside of the dam, rocks and stones are being placed to prevent the woodwork from being washed away, also to strengthen the foundations. I am

of the opinion the work is being very substantially built.

The object of building this dam with sluice gates is to gain every advantage over the area they have under their control. They can when cleaning the grounds, or catching or picking their stock for market keep the water low which would lighten their work very considerably. On the other hand, during the winter months the water can be retained inside the inclosure, so that when frozen over it will protect the oysters from frost, providing there is water between the bottom

Then again during the spatting season the area could be continually supplied with small quantities of sea water, letting none escape, and by which means con-

siderable spat may be secured and saved.

The bottom of the reserved area consists of clean gravel, sand, firm mud, mussel banks, and when the bottom is softer eelgrass is growing in large quantities. The bottom at the eastern end is the softest, owing to there being less current than elsewhere as the outlet is at the western side.

The water is very clean and clear, and not too salt, there are two small streams flowing into the area, these I consider will not in any way be harmful but rather

beneficial to the oyster.

NORTH RIVER, CHARLOTTETOWN, P.E.I.

After examining and reporting upon this area last fall, it was decided to open the river for public fishing to licensed oyster fishermen for a short period. Reserving this area has had the desired effect, and has proved an excellent test case, as oysters have grown and accumulated. Before it was closed some three or four years ago, a man could scarcely catch a bushel of oysters in a day; when opened for public fishing last fall, the first day's catch amounted to 500 barrels, the grounds were opened for three weeks when it was estimate t that from 1,800 to 2,000 barrels of oysters were taken during that time. I have again examined the grounds and find they are now in a good clean healthy condition with a large quantity of young oysters scattered over the whole bed of the river. I have every reason to believe there will be another good crop later on. It was decided not to open the area for public fishing this season, as most of the cysters were small. If allowed time, the oysters will attain their full growth, then the fishermen will reap the benefit of a good catch. I do not entertain the slightest doubt that if other areas were reserved in a similar way, it would be beneficial to the fishermen generally, as it is now clearly to be seen that oyster areas throughout the provinces are being fished to a far greater extent than they really should be.

BEDEQUE BAY.

This area which I have previously visited and reported upon, is I regret to say in a less favourable condition than I had anticipated, as far as the size of the oyster

ground is concerned.

The area approaching Wilmot's Creek on the north side is totally unfit for reservation, or the cultivation of oysters, as it is in such disjointed patches, caused by mud digging there from time to time. Some of the ground is found to be clean and free from eelgrass, but it is scarcely possible to go a boat's length without meeting a mud digger cut. The few oysters taken from here are chiefly found around the edges of these small patches. A slight increase is reported in the quantity of oysters taken from there this fall; three and four boats were seen working there, catching from 2 to 4 baskets (61 baskets = 1 barrel) per day on an average; sometimes they may strike a place where a small bed has not been disturbed for some time. Inside of this area the water is too shallow for planting purposes.

Off Oyster Point on the south side of the bay there is an extensive flat covered with eelgrass, and underneath the sediment oyster shells are found, but at low spring tides it nearly dries and would not be suitable on account of the shallowness of the water.

The other portion of the bay and river is too much cut up to anticipate oyster culture.

I may say the whole of this once valuable area is now so cut up into a network of trenches that I am unable to find an area sufficiently large to reserve for departmental cultivation. I did not deem it necessary to visit Richmond Bay this season as I reported fully on the areas there in my last year's report. See page 316.

OYSTER AREAS AND LEASES OR LICENSES.

The department has for the past few years granted areas of ground at a nominal rate to persons who interest themselves in oyster culture. The areas thus granted are either dead oyster beds, or areas of ground which can be converted into an oyster farm; and I am glad to know that is has not been the policy and it is not the intention of the department to grant public oyster fishing grounds to individuals or companies, so that by these means the oyster areas of the provinces may be enlarged, and I am pleased to state that persons are taking up areas for private cultivation. The idea is a good one in which all are concerned. These licenses extend over a period of 9 years and are issued at the rate of \$1.00 per acre per annum. Persons will stock their areas with young or marketable oysters, these in their turn will throw off their spat, which the owner has practically no control of; it may rest either upon his own beds, or may be carried away by the tides and currents to other areas either public or private as the case may be. This encouragement of private enterprise may be the means of keeping up the stock upon public beds, if the regulations are strictly adhered to.

This will to a certain extent counteract the loss of ground which is annually destroyed by mud-digging. This practice is not now carried on to so great an extent

The following, are the total number of acres licensed to persons in the different provinces to date:-

	Acres.
Quebec	472
New Brunswick	471
Nova Scotia	743
New Brunswick	46
British Columbia	1421
" Indian reservation	365
Total	11473
	4

The area reserved for the Indians in British Columbia is merely flats in front of their reservation from which they will pick oysters but do not cultivate them. Besides the above areas granted, other applications are still coming in, which will in turn be granted upon the approval of the Department. The area in Quebec I have already explained in this report, other areas vary in size from one acre upwards. At present there are forty persons in the Dominion holding licenses of oyster areas. divided as follows: --Quebec 2, New Brunswick 2, Nova Scotia 12, Prince Edward Island 17, and British Columbia 7.

Another advantage with persons holding oyster areas is, that they can keep their stock until a market is available, they can also select their oysters; as a rule, at the first part of the season everyone fishing for oysters sends them to the market.

which soon becomes glutted, and the price falls.

PUBLIC AREAS.

Public areas might also be reserved at different parts of the provinces from public fishing, if only for one season, and opened every alternate year; if this scheme came into force I am confident it would protect the fishing industry and have a beneficial result, for I notice as a rule that oysters are shipped to market too young, they may be within the regulation size and yet not developed, if this plan were adopted it would give an oyster time to grow to its natural size and thus bring a better price.

EFFECTS OF FROST.

It has been noticed that during the last few years oysters have been taken in very fair quantities from the river flats and areas that dry at low water, but these areas are not always to be depended upon in their yield, as they are placed in such an exposed locality, being subject to the frost. It makes a great difference when the frost sets in on areas such as these, if the frost comes with any force during spring tides when these areas dry at low water it is nearly always fatal to the oyster, if on the other hand the ice makes during neap tides and remains, it acts as a covering and protection to the oyster, and when the ice actually rests upon the flats the soil is sufficiently soft to allow the oyster to be pushed into the mud until the ice rests on the whole area, in such cases the oyster will live, but where the oyster is exposed to the frost by low tides and heavy winds the oyster itself becomes frozen, which means certain death especially to the half grown ones. This was particularly noticed on the flats at Davies Point, Orwell River, P. E. I., covering an area of about 7 acres; in 1896 over 1000 barrels were picked up. That winter the ice made during low spring tides which appeared to kill nearly every thing off, as there was not onefifth taken from there that year. Pownal Bay was found to be in the same condition, this has been noticed and watched by practical men.

The quantity of oysters taken during the season of 1896, will be found in the

tables of this report.

I have the honour to be, sir, Your obedient servant,

ERNEST KEMP,
Oyster Expert.

APPENDIX No. 12.

REPORT ON THE FISHERIES PROTECTION SERVICE OF CANADA, 1897, BY COMMANDER O. G. V. SPAIN.

OTTAWA, 15th December, 1897.

To the Honourable Sir Louis H. Davies, K.C.M.G., &c., Minister of Marine and Fisheries.

Sir, -I have the honour to report on the work of the Fisheries Protection and Fisheries Intelligence Bureau Services under my charge during the past season, as follows :-

The vessels comprising the fleet were as follows:

Vessels.	Date of Commission.	Date of Paying off.
"Curlew". "Constance" "Aberdeen" (in fisheries service off and on). "Dolphin" "Petrel" "Kingfisher" "Osprey". "Acadia". "Victoria".	15th April 18th March 29th April 27th do 1st do 21st do 25th May, 6th do	16th Nov. 13th do 20th do 20th do 16th do 19th do 6th do 6th do

The "Quadra," Captain Walbran, on the Pacific coast, was used from time to time by the fisheries branch of the department. An account of her work will be

found on page 288.

The "Acadia" was engaged as usual in the general supervision of the fleet, and "La Canadianne" being out of commission this owing to both the "Stanley" and "La Canadienne" being out of commission this year, she was kept constantly moving. The boilers and machinery of this vessel are getting very old, -nearly eighteen years, and will no doubt require very extensive overhauling shortly.

The "Constance" was employed in revenue work in the Gulf and River St. Lawrence, and made a trip to St. Pierre Miquelon with Chief Preventive Officer Jones on board. She made an important seizure on the 27th of October, of the schooner "Canada," with \$1,000 worth of spirits on board. A regular report of her

work will be found on page 284.

· "Curlew."—This vessel was chiefly employed in the Bay of Fundy, but both early and late in the season she was cruising off the Cape Breton and Prince Edward Island coasts. A report of her work will be found on page 290.

"Petrel."-This vessel was employed almost entirely in Lake Erie. She pays off, and lays up at Owen Sound. Her work is to prevent depredations by foreign fishermen in our waters, also general supervision of our own fishery regulations.

"Aberdeon."—This vessel was under the charge of Commander Lavoie, the

officer in charge of the Gulf Division of Fisheries, Dr. Wakeham having been sent in command of the Hudson Bay Expedition. She was also employed for a considerable period in lighthouse and buoy services.

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The "Dolphin."—This patrol boat (very old and very slow) was employed in the Georgian Bay looking after our own fishermen. Her headquarters were at

Owen Sound.

The "Osprey."—This is the new schooner built by Mr. McGill of Shelburne, last year. She has proved herself a splendid vessel, fast, roomy and a good sea boat. Her station has been from Canso to Sydney in Cape Breton and later in the season on the S. E. coast of Nova Scotia. I am convinced that this schooner can compete with any vessel of her class on the coast.

The "Kingfisher."—This sailing cruiser has had her station off east point P. E. I., and has done excellent work, in looking after poachers and illegal fishermen

of all descriptions.

The officers and men of the service gave me every satisfaction, except in a few instances. The work has been very arduous this season on account of the small

number of vessels which were under my command.

I am pleased to be able to report that not one instance of poaching came under my notice. When the extreme length of coast line is taken into consideration it will be apparent how the vessels have to be continually at sea to protect it. The U.S. man of war "Marblehead" has been in the gulf this year, and made her head-quarters at the same place as myself, that is to say at Charlottetown, P. E. I. Although she was undoubtedly sent to watch the movements of my fleet, the most cordial relations existed between us. In fact, I have not much doubt that one of the reasons I had so little trouble with United States fishermen this year was to a great extent due to the presence of this vessel on the coast.

The Customs Department had an extra vessel on the Cape Breton coast this year, the "Victoria" under the command of Captain Demers. Although she did not make seizures, she no doubt helped in a great way to debar the numerous bands of smugglers which infest this coast from carrying on their nefarious operations.

The only seizure this year was made just at the end of the season by Captain Knowlton of the "Osprey" at Shelburne, N. S., of the United States fishing vessel "Carrie E. Philips," of Provincetown, U.S.A. She is under detention for an infraction of the customs laws in that she entered and left Lockeport Harbour, N. S., without reporting at the custom-house. The case is now under consideration. She was an unlicensed vessel and had a perfect right under the treaty to come into port for repairs which she did, but what her object was in failing to report it is difficult to imagine.

The above named vessel has since been released on payment of a deposit of \$200.

LICENSES FOR FOREIGN FISHING VESSELS.

The same Order in Council being passed as before, that is sanctioning the continuance of the issue of *modus vivendi* licenses to United States fishermen, similar permits were issued in 1897.

The following table gives a list of the vessels that took out licenses in 1897:

Schedule of United States Fishing Vessels to which Licenses were issued under the Act entitled "An Act respecting Fishing Vessels of the United States of America," during the year 1897.

Name of Vessel.	Port of	Registry.	Tonnage.	Port of Issue.	Fee.
					\$ e
Essex		r	84	Pubnico, N.S	126 (
Alice R. Lawson	do		115	do	172 5
Senator Saulsbury	do		102	do	153 (
Hazel Oneita	do		73	Shelburne, N.S	109 5
Parthia	do		77	Tusket, N.S	115 5
Madonna	do		79	do	118 5
Emma E. Wetherell	do		109	Pubnico, N.S	163 0
Blue Jacket	do	* * * * * * * * * *	86	Yarmouth, N.S.	129 (
Chetis	do	***** * * *	91	do	136 5
Aystery	do		89	Pubnico, N.S	133 5
Ternwood.	do		96	do	144 (
Tabel D. Hines			92	do	138 (
Vinona			103	do	154 5
Leteor	do		96	do	144 0
lector	do		84	Tusket, N.S	126 0
Vm. E. Morrissey	do		93	do	139 (
nnie Wesley	do		88	do	132 0
Iargaret	Beverly. , .		107	do	160 5
eneral Cogswell	Gloucester		97	Liverpool, N.S	145°
Larguerite	do		81	Tusket, N.S	121 8
mma S. Osier	Eastport		22	Campobello, N.B	33 (
inta			94	Canso, N.S.	141 0
ertie Evelyn	do		81	Arichat, N.S	121 5
m. Matheson	Provinceto	wn	72	St. Peters, N.S	108 (
ulia E. Whalen			96	Port Hawkesbury, N.S	144 (
olunteer	do		102	do	153 0
[asconoma	do		91	Arichat, N.S.	136 5
nnie G. Quiner.			79	St. Peters, N.S	118 5
dgar S. Foster			79	do	118 5
ladstone	Gloucester		75	Canso, N.S	112 5
ellie Burns			43	do	64 5
alph E. Eaton	Gloucester		47	Souris, P.E.I	70 ã
izzie Walworth	Milloridge		8	Campobello, N.B.	12 0
pes Tarr			48	Souris, P.E.I.	72 (
essie M. Devine	do		91	Amherst, M.I., Que	136 1
ist	do		48	Souris, P.E.I	72 (
indseer	1		94	Port Hawkesbury, N.S	141 0
eporter				Souris, P.E.I	118 5
resa			82	Arichat, N.S	123 0
obin Hood	do		88	North Sydney, N.S	132 0

SUMMARY.

Total number of vessels	40
Total tonnage	3,261
Total amount received in fees	4,891

It will be noticed that there has been a falling off in the licenses taken out by United States fishermen this year. The reason, I think, is the great leniency with which the department have treated these fishermen, in many cases privileges being granted which really necessitated the taking out of a license, so of course, in the natural order of events, owners would not pay for a privilege (although it is only a nominal fee), when they could get the same thing without paying. Those who did take out and pay for licenses were much exercised over the same right being accorded to people who paid nothing.

During 1896 the number of licenses increased nearly 60 per cent, on account of the extra paragraph which was placed in the license warning United States fishermen with a license that if they sold stores of any description to vessel without such license, immediate cancellation of the permit would ensue, and no license would be issued to the offending vessel in the future. The invariable conciliatory attitude of the Canadian Government for years to foreign fishermen I think is taking effect now, and it will probably be found that the licenses will become fewer.

The following is a statement of the number of licenses issued each season since

1888:

1888	36
1889	78
1890	119
1891	98
1892	
1893	71
1894	53
1895	47
1896	77
1897	

The returns of the large number of United States fishermen who make use of Sand Point, Shelburne County, N.S., generally the last port of call on the way home form an annex to this report, and will be found interesting.

THE MACKEREL FISHERY.

The catch has been very disappointing this year indeed. The fish caught were of large size, some of them going over three pounds in weight. They appeared about the same time off our shores as last year, and light hauis were made at Prospect, N.S., on May 17th. On May 22ud a number of United States fishermen were off Shelbarne, N.S., with the cruisers "Kingtisher" and "Osprey" in company, the "Acadia" being more to the westward. Few mackerel were seen, the weather being excessively stormy and foggy, but a Gloucester seiner made a haul of some 14 barrels about 6 miles off Liverpool. This, I think, was the first catch by a United States vessel. The season was backward altogether. At the same date last year, May 22nd, the steamer from Yarmouth to Boston landed 1,500 barrels of fresh mackerel; this year she had only 80 barrels on board. On May 27th there were 60 sail of United States vessels off Prospect, with the cruisers "Curlew," "Osprey" and "Acadia" in company. One vessel, the "Marguerite Haskins," did weil, catching 150 barrels.

The weather continued very rough and foggy throughout the spring, and up to the second week in June the mackerel fishery might be considered a total failure, no large body of fish being fallen with, and quite 35 vessels of the fleet not having had their tackle in the water at all. Very few had more than 50 barrels. The total catch of the Cape shore fleet up to this date (second week in June) amounted to

under 2,000 barrels.

About this time accusations were brought against the United States fleet by our fishermen, charging them with maliciously sailing through and destroying nets. The alleged offence I thoroughly investigated, and found without foundation, although in some cases, no doubt, nets were unavoidably destroyed, but certainly

not maliciously.

Cape shore mackerel were worth about \$10.25 per barrel. There were some very good catches made on Georges in July and August. At the beginning of September prospects seemed to brighten up in North Bay, and vessels were doing fairly well off Prince Edward Island. The mackerel being taken were of mixed size. They were schooling freely on Fisherman's Bank, in Northumberland Straits, off St. Peters, and the 1st and 2nd Chapels. These mackerel were selling in Boston for \$24 per barrel on September 8th.

A few catches were made off Sydney later in the fall, but on the whole the mackerel catch of 1897 may be looked upon as a bad failure. Their habits have changed very much; they no longer get together in large schools, but small quantities of fish are found here and there. This, I think, is largely due to diminished numbers. They are frightened by the purse seines which break up the schools and

scatter them all over the place. The seines are, and I have often pointed out, most destructive engines, and I would strongly recommend that their use should be prohibited by international agreement before the 1st of July, at any rate. The capture of these fish before they have spawned must eventually, as far as I can see, utterly destroy the fishery, and the very least protection that might be afforded them would be to prohibit the use of the purse seine before the mackerel have spawned. At present they have no protection whatever. When they are spawning they will not take the bait, but the purse seine gets them at all seasons. Not only does this method of fishing catch mackerel, but at the same time any other kinds of fish, more particularly herring, which are all thrown away.

I think it would be found that a very large percentage of masters of fishing vessels, both British and foreign, would concur in the prohibition of the purse seine. My own experience is exactly in the same way, and I trust the department will see

its way to take some effective measures in the desired direction.

A short description of a purse seine taken from Professor Brown Goode's report

may be of interest:

"A large seine used with a very large seine boat is about 210 fathoms in length and 30 fathoms deep, being deeper in the centre than at the wings. The boat end is about five fathoms deep, and the dory end varies from about 7 to 15 fathoms in depth. It is made of three kinds of twine. The trailing piece, which is a section of the net occupying about 10 or 12 fathoms along the centre of the cork line, and having the same depth as length is made of the stoutest twine. Beneath this and composing the remainder of the float and extending to the bottom of the seine is a section knit of twine a size smaller. There is also a band of large twine 15 meshes in depth, extending along the cork line of the seine on either side of the trailing piece to the extremity of each wing."

In one of the above engines it often happens that 100 barrels of fish are inclosed at one east. Only a small portion are mackerel, the remainder being thrown overboard dead, and sinking to the bottom, foul the ground and drive off other fishes.

The list of United States fishing vessels boarded by Dominion Government cruisers in the Canadian waters on the Atlantic coast and Gulf St. Lawrence during the season of 1897, will be found as Annex B to this report.

List of Vessels (Seiners and Hookers) fishing in North Bay, Fall of 1897.

Date.	Name.	Home Port.	Master.
1897.			
	John Smith.	Gloucester	John Stewart.
	0 02222 1022222222	do	N. McPhee.
	Reporter	do	Jas. McDonald.
	Mist	do	T. A. Irwin.
	Epes Tarr	do	John Thompson.
	Ralph E. Eaton	do	Thomas White.
	Helen F. Whitten		Jas. McDonald.
	Landseer	do	Thad. Morgan.
	Henry M. Stanley	do	Wm. Grant.
	Davy Crockett	do	B. F. Payson.
	S. F. Maker	do	Joe. E. Graham.
	Hattie M. Graham	do	
	George F. Edmunds	do	Wm. Corkum.
	F. W. Homans	do	Richard Jackman.
	Effie M. Morrissey	do	Charles Leaman.
	Alice M. Parson	do	James McLean.
	Alice C. Jordan,	do	J. H. Warren.
	Herald of the Morning	_ do	Levi N. McLean.
	Nellie Dixon	Boston	C. Ellsworth.
	Ethel B. Jacobs	Gloucester	Sol. Jacobs.
	Elsie M. Smith	do	Frank Hall.
	Lizzie M. Center	do	Joseph Smith.
	Lena and Maud	do	J. W. McFarland.
	George S. Boutwell		
	Norumbega	do	John McKinnon.

Up-to-date vessels will not average bay catch over 25 barrels mackerel; several if not all the late fleet got nothing.

LIST of Vessels which fished off Cape Shore, 1897.

Date.	Name.	Tons.	Home Port.	Master.
1897.				
Iav	Abbie F. Morris	77	Gloucester	McLean.
	Abbie M. Deering	90	do	Rowe.
	Albert Geiger	53	do	Mehlman.
	Agnes E. Downe	81	do	Carrigan.
		85	do do Provincetown.	Chase.
	Alice C. Jordan	82	Gloucester	Warren.
	Alice M. Parsons	72	do	Haymer.
	Annie C Hall	84	Gloucesterdo	McLain.
	Annie Greenlaw			OLT CONTENTAL
	Arthur Binney		Boston	Mahar.
	Braganza	91	Gloucester	Corkum.
	Carrie E. Phillips	110	Boston	Malloch.
	Centennial	110	Gloucester	Harty.
	Charles Levi Woodbury	$100\frac{1}{2}$		Cunningham.
	Commonwealth	81	do	Critchett.
	Davy Crockett	803		Grant.
	Eddle Davidson	78	do	Cromwell.
	Edith D		do	Connelly.
	Edith M. Prior	106	do	Prior.
	Effie M. Morrissey	114	do	Leaman.
	Elsie F. Rowe. Elsie M. Smith. Ethel B. Lacobs	55	do	Gannon.
	Elsie M. Smith	107	do	Hall.
		125	do	
	Flora L. Nickerson	95	Booth Bay	Lewis.
	Trank A. Mockillie	99	Gloucester	Ellsworth.
	Frank H. Smith	102	North Haven	Wyne.
	F. W. Homans		Gloucester	MicDonaid.
	Gatherer	91	do	Maguire.
	Geneva Mertis	$42\frac{3}{4}$ 142	do	Carlance
		101±	do	MoLeen
	Golden HopeGrace L. Fears	845		Ailcon
		115	do	Cameron
	Grayling Harry G. French	95	do	
	Harvard	1061		
	Harvard. Harry L. Beldon Hattie Evelyn	117	Boston	Walen
	Hattie Evelyn	66	Boston Gloucester.	Torry
	Hattie E. Heckman		do	Hickman.
	Hattie M. Graham	133	do	Graham.
	Hattie and Lottie	96	Dennis	Nickerson.
	Hattie and Lottie	1274	Gloucester	White.
	Henriette Francis	74	Dennis. Gloucester. Portland	Edwards.
	Henry Ellsworth	56	Gloucester	Gallant.
	Henry Morganthaw	851	Portland	Dyer.
	Herald of the Morning	68	Gloucester	McLean.
	Henry M. Stanley	112	do	Morgan.
	Hiram Lowell	121	do	Nelson.
	Hustler	$92\frac{3}{4}$	do	Keene.
	Indiana	$116\frac{1}{2}$		
	Iolanthe	$70\frac{3}{4}$	do	
	James A. Garfield	61	do	Grant.
	James G. Blaine	98	do	
	Jennie B. Hodgdon	112	do	Hodgdon.
	Jennie B. Hodgdon. Jennie P. Phillips. J. J. Clark John E. McKenzie John S. Presson. Kearsarge		do	Doane.
	J. J. Clark	66	do	McLaine.
	John E. McKenzie	124	do	McKenzie.
	John S. Fresson	88	do	Williams.
	Kearsarge	100	· uo	TATILIS.
		0 1	do	McDonald,
	Latona	104	do	Croucher.
	Lena and Maud	New	00	McFarland.
	Lizzie Mand. Lizzie M. Center.	(!)	Portland	Spuring.
	Tiggio Smith	77	D	Ohana
	Lizzie Smith	73	Provincetown	Unase.

LIST of Vessels which fished off Cape Shore, 1897.—Concluded.

Date.	Name.	Tons.	Home Port.	Master.
1897.				
Mary	Lowing D. Hashall	011	Classaction	13.5
May	Loring B. Haskell Lottie Gardner	1111	Gloucester	Murphy.
	Lucillo	96		Parriss.
	Lucille Lucy W. Dyer	78		Welch.
	Mabel Kensington	78	do	Staples.
	Marathon.	65	do (now lost)	Hudder.
	Margaret Mather	91	do (now tost)	7 5 4 4 4
	Marguerite Haskins	103		Miller. Harty.
	Margie Smith	58		Smith.
	Mariner	107월		Stanley.
	Marshall L. Adams			Seavy.
	Maud S.			Reed.
	Mayflower		Gloucester	need.
	Mertie and Delmer	744	Chatham	Doane.
	Mertie H. Perry	592	Boston	Perry.
	Minerva	613		Hall.
	Minehaha	50	Swanscott	1 2 2011
	Mist	63	Gloucester	McDonald.
	M. S. Ayer	76	do	Thomas,
	Nellie Dixon	$105\frac{1}{5}$	Boston	Poole.
	Nellie M. Davis	89	Gloucester	Doran.
	Nereia	921	do	Whitten.
	Norman Fisher	76		Anderson.
	Norumbega	$120\frac{1}{2}$	do	McKinon.
	Oliver S. Killam	New		Killam.
	Oliver Wendell Holmes	102	do	Pitts.
	Ralph F. Hodgdon	86	do	Greenleaf.
	Richard Lester	. 69	_ do	McDonald.
	Ruth M. Martin		Boston	Ellis.
	Sea Fox	$105\frac{1}{2}$	Provincetown	McGray.
	S. F. Maker	1033		Payson.
	Sir Knight	$76\frac{1}{2}$		McKown.
	Speculator	105	Gloucester	McDonald.
	Stowell Sherman			Hatch.
	Talisman		Gloucester	McKay
	Wm. E. McDonald	93	do (since lost)	

101 vessels-Total catch in spring, 1,048 barrels.

LOBSTERS.

The lobster catch in nearly every locality has been small. It was bad enough last year, but even worse this, mainly due to the frequent and constant storms in May and June breaking up and destroying the fishermen's traps, etc., and doing an immense deal of harm to the business. The season was extended for nine days in the Gulf, and people who fished through July did not do so badly. Prices were

fairly high, and this helped the fishermen out slightly

I think the present laws for catching lobsters are about as good as can be made, but I have had intense trouble with fishermen who persist in fishing during the close season, and thousands of dollars worth of gear has been destroyed for being set illegally. The pack in Cape Breton was very bad indeed, not much more than half the average, and many fishermen hardly paid expenses, so much of their gear being destroyed by the storms. Lobsters do not come into shoal water when there is any chance of bad weather, and the extra expense of fishing in deep water is large. I think the small individual pack is due to the weather and not to any particular diminution in the fish themselves in this locality.

I am of the opinion, which I think, is generally shared, that there should be no lobsters caught north of Cape George after the 1st of July. By far the greater

quantity of spawn is east after this date though no doubt not all. The regulation in regard to the size limit, although a good thing, is very nearly impracticable to

carry out rigidly.

I append extracts from the Annual Report, and from Captains Dunn, Pearson, May, Kent, Pratt, Knowlton and Walbran, the last named an expert in British Columbian waters.

ANNEX A.

EXTRACTS OF REPORTS FROM CRUISER'S OFFICERS.

CAPT. C. T. KNOWLTON, Commander of the Cruiser "Osprey," reports as follows:—
"In compliance with your order I will now hand you my report of work done by
the Fisheries Protection Cruiser 'Osprey' under my command for the season of

1897.

"The 'Osprey' commissioned at Halifax on the 21st April with part of her crew. April 22nd, by order, proceeded and arrived at Shelburne 24th, where we took on board the remainder of our crew. We then took up our station between Halifax and Shelburne, with Lunenburg headquarters for mails until 10th May, when we went on the marine "slip" at Halifax, and painted bottom; the weather being very stormy we were detained for several days. On the 17th we proceeded to sea, weather still foggy, cruised eastward, passed through the Strait of Canso, arrived at Pleasant Bay, Magdalen Islands, 21st. I found a large fleet of fishermen baiting. Herring plentiful. There were only a few United States fishermen, mostly Canadian. Beside fishermen there was a large fleet of small vessels catching herring for the lobster factories at Prince Edward Island and Nova Scotia to be used for lobster bait. I found matters quite changed to what they were when I visited those islands in 1891. There were from twenty to thirty United States bankers and only a few Canadians. We remained in Pleasant Bay until the herring season was considered to be over, and on the 27th of May proceeded towards the southern coast of Nova Scotia to meet the mackerel fleet. 29th we were off Cape Canso with a fleet of twenty-two United States seiners. We continued to cruise with the fleet from Cape Canso to Sydney and back to Liscomb until the 9th of June, when the last of the fleet went westward. As a whole the fleet did very poorly, while some had fair trips others went home clean. We then took up station at Canso and cruised as far west as Liverpool, east to Louisbourg, with occasional runs to Prince Edward Island. In connection with protecting our coast from foreign fishermen, we had several other duties to perform, protecting the lobster and other fish until 23rd October, when we were instructed to proceed and take up our station off Sydney with the United States mackerel fleet. We proceeded on the 24th, and the same night were off Sydney with part of the fleet. 25th with a fleet of twenty we continued to cruise with the fleet between Cape Smoke and Scattari until 8th November, when part of fleet went west. On the 9th we followed and found tail of fleet at Louisbourg. We were detained at Louisbourg for several days, weather being stormy. 15th we proceeded and arrived at Halifax on the 16th. A very few had fair trips while others had very poor, and several went home clean having spent from three to seven weeks waiting and watching. 18th November we proceeded and arrived at Shelburne same day, where we cruised finding several United States trawlers on different occasions for shelter. On the 13th of December detained the United States trawler "Carrie E. Phillips" at Shelburne for infraction of customs laws. This vessel was released on deposit of \$200, and on 18th December I put "Osprey" into winter quarters and paid off crew."

Capt. W. H. Kent of the Cruiser "Kingfisher" reports as follows:-

"In March I received orders to commission the 'Kingfisher;' on April 1st I proceeded to Shelburne, N. S., and superintended the painting and fitting up the ship for the season's work. On April 1st the crew were signed in, and ship placed in commission. After getting stores and provisions on board we proceeded, making

Shelburne headquarters for mail and telegrams.

On the 10th April I received your telegram ordering me to the wreck of the SS. 'Assaye,' stranded on Blonde Rock, to prevent unauthorized people from taking goods from the wreck. On the 12th we arrived at the wreck, where I found about twenty sail of vessels near by and a large number of men on board. I at once ordered them to leave the ship, which they did after some hesitation. The ship being abandoned, I proceeded to Pubnico for the night, returning next morning, when I found several sail of vessels and two steamers alongside helping themselves. I ordered them to leave the ship immediately, which they did. I then made an examination and found the wreck had been stripped of everything movable, a large quantity of dry goods cases were found with tops smashed in and contents gone. By all appearances the cargo must have been very valuable. That evening we ran back to Pubnico.

The next day I received a telegram from the Deputy Minister of Marine and Fisheries saying you were not in Ottawa; also stating it was not necessary to remain by the week any longer. As soon as weather cleared we proceeded back

to our station off Shelburne and as far east as Lunenburg.

On the 1st of May, I with the crew, assisted in fitting out the cruiser 'Victoria;' also by your orders, sent my second officer to assist Capt. Demers as

far as Charlottetown, he not having a full complement of men.

On May 15th the first American seiners arrived at Shelburne. From that time they commenced to increase in number, but owing to the dense fogs which prevailed on the S. E. coast of Nova Scotia, it was hard to keep run of the fleet; in fact it was almost impossible to do so. I continued to cruise off Shelburne till 28th May, when we proceeded east, calling at Halifax, and on to the eastward seeing now and then one of the seiners when the fog would lift.

On arriving off Canso we fell in with about eighty sail of seiners which had given up the hunt, and were returning west with empty ships, as the mackerel had

given them the go by in the fog.

The presence of so many seiners on our coast every spring certainly must be the cause of mackerel being so scarce, as they are continually harassed by seiners and nets. It is my opinion, unless there is some international agreement to prevent the continuance of wholesale slaughter and destruction which has been the cause of depleting our waters of this valuable fish, that mackerel fishing will soon be a thing

of the past.

I spent some few days cruising about Chedabueto Bay and off Canso. On June 8th I received orders from you to proceed to Port Hawkesbury and put ship on marine slip for cleaning and painting. The next day we arrived and hauled over on the slip, and completed the necessary work. By the 11th, after waiting one day for paint to dry, we went on to Pictou, when the ship's company were measured for uniforms by Mr. W. H. McLaren, tailor.

From Pictou I proceeded by your orders to Souris, P.E.I., to take up my

station off the East Point, P.E.I., where we remained till October 26th.

After the beginning of the lobster close season we spent a large part of the time looking after gear left out and fished contrary to law. I found and destroyed a number of traps off Launching also off Chepston. We made one trip to the Magdalen Islands on the same business, but the wheather came on so stormy I had to abandon the voyage, and get back to Souris, not without a taste of what the Magdalens are like in the fall, as we rode out one of the heaviest gales of the season in Pleasant Bay. I landed at Amherst for a short time only, but was not able to land again during my stay there.

The fleet did not arrive on my station till late.

"There was a small catch off East Point on the evening of the 26th August, but nothing after that. The seiners cruised all over the gulf, but could not find the fish, and had all left the gulf by October 26th for Sydney, Cape Breton, the last remaining

place for the fall catch.

The fleet of Americans having left the gulf, acting on your orders, I proceeded to North Sydney, where I found twenty-two sail of seiners, the cruiser "Osprey" in company. They did very well at Sydney, the highest catch being one hundred and seventy-eight barrels. Whilst at Sydney I received a telegram from yourself ordering me to be at Halifax November 12th, to pay off. We left Sydney, November 4th, and proceeded west, but owing to the heavy gales prevailing, did not arrive at Halifax till the morning of the 16th, when I at once paid ship out of commission. The sails being wet, I had to remain with the chief officer and a few men to dry everything and store it away, which we completed by the 20th November, when I left for home via St John.

Our Fisheries Protection annual sports at Georgetown, P.E.I., were a grand

success this year, and we hope next year to make them still better.

We were much pleased to have the honour during the summer of escorting the Governor General of Canada from Pictov to Charlottetown, and we hope to have the privilege of a like honour at some future time.

CAPTAIN GEO. M. MAY of the D.G.S. "Constance" says :-

According to your instructions of the 6th instant I have the honour to submit to you the following report for the season of navigation just closed, and beg respectfully to state that my officers and crew joined the "Constance" on March 20th,

On the afternoon of the 24th left our winter quarters and made fast to Crawford's Wharf, Quebec. After taking in a supply of coal and provisions we left port

for the gulf early on the morning of the 30th.

On our way down the river we met ice in considerable quantities, especialy between Crane Island and the Stone Pillars, but as it was pretty well scattered we had no difficulty in passing through, and at 6 p.m. moved at Murray Bay wharf for

the night.

At 4 a.m. 31st, left Murray Bay and proceeded on down the river meeting no ice worthy of mention until nearing Bic, when we met in with large quantities, with wide open channels through it, we proceeded on down with the expectation of being able to reach Rimouski wharf, but on arriving off the east end of Barnaby Island we found the ice closely packed everywhere; we at once put about to return towards Bic, but before proceeding far the ice closed in on us where we had to remain jammed for the night.

On the 1st, 2nd and 3rd April owing to strong northerly winds we were unable to move, the ice being very heavy and closely packed as far as the eye could reach, during which time we drifted down by (or with) the current to near Matane,

a distance of 45 miles.

On Sunday, 4th April, owing to change of wind, and probably current also, the ice began to open in large channels to the westward and north. At 2 p.m. we began to work our way slowly through the ice towards the open water some four hundred yards distant, which we succeeded in doing at 5 p.m., and at 8.45 p.m. anchored at Godbout for the night.

On the morning of the 7th April we anchored at Esquimaux Point where I received from Dr. Tremblay three barrels and five kegs of spirits seized by him at

Agwanus, and returned to Rimouski on the 9th.

From the 11th to the 25th April we cruised along the south shore down as far as Cape Rosier, west point of Anticosti, and along the north shore, returning to

Quebec on the 26th for a fresh supply of coal.

On account of a severe attack of muscular rheumatism, contracted through exposure to wet and cold, I was confined to my bed from the 28th April to the 6th of June, and on the 19th June had the pleasure of once more being able to join the "Constance."

During the above period the steamer continued her cruise in command of my chief mate, Mr. Wm. Caron, and under the instructions of Mr. Fred. L. Jones, chief preventive officer of Customs. From the 22nd June to the 14th August, our cruise was along the north and south shores of the Gulf St. Lawrence, Anticosti, and the

Bay des Chaleurs.

From instructions received from Mr. Fred. L. Jones, we left Percé, county of Gaspé, on last named date for North Sydney, C.B., via the Magdalen Islands, arriving at Sydney during the night of the 15th. On the 19th August left North Sydney with Mr. Fred. Jones, and Converse J. Smith, Esq., of the United States Treasury Department, of Boston, Mass., on board for St. Pierre Miquelon, arriving there early the following morning. At 3 a.m. 23rd August left St. Pierre, and at 2 p.m. anchored in Placentia Bay, Newfoundland.

On the 24th crossed over to St. John's, Newfoundland, by railway with Messrs. Jones and Smith and returned at 3.30 p.m. next day, leaving immediately on our

return for North Sydney, arriving at later place 10 p.m. 26th.

Friday 27th August we left Sydney for up the gulf via the Gut of Canso, and arrived at Gaspé for a fresh supply of coal on the 30th, after which we resumed our cruise about the gulf coast and River St. Lawrence, principally along the Gaspé

coast to Bay des Chaleurs.

During the first week of October, information was sent to me that the schooner "Canada" had left St. Pierre Miquelon for the St. Lawrence with contraband spirits on board, and to keep up vigilant search for her. This we did, and on the 27th of same month were successful in boarding, and seizing her off St. Félicité, with thirtythree barrels of spirits on board, valued at about \$4,000.

From evidence given in court by the crew, (who were made prisoners) eleven barrels of whisky, two kegs and four boxes of gin, had been landed a few hours before the "Constance" hove in sight, by Telesphore Coulombe and one Bilodeau.

Several reports were in circulation that contraband spirits had been landed at various points during the summer, but on close investigation, in all cases they proved to be incorrect, and were believed to be circulated by the would-be smugglers themselves to cause a sensation, or to make a boast, and make believe that contrabands were landed in spite of the means taken by the government to suppress

I may say here that very little smuggling is now done about the Gulf and River St. Lawrence compared to what it was previous to the "Constance" going into commission.

It is my firm belief that before the steamer was commissioned, not less than

fifty vessels were employed in this illicit trade.

On one of my trips along the north shore, the last season I was master of the steamer "Otter," I saw no less than five schooners loaded with spirits from St. Pierre Miquelon, three in St. Nicholas harbour, and two in Mingan harbour all waiting a favourable chance to proceed up the river.

During the past season the "Constance" sailed over 19,250 miles. We boarded one hundred schooners, yachts and boats, and out of the whole could not find or trace anything whatever in the shape of contrabands or anything to cause the least

suspicion until we met with the steamer "Canada."

But the gulf is long and wide, and I may say it is utterly impossible for one cruiser to be in the Bay des Chaleurs, watching the north shore, the south, and the River St. Lawrence at the same time. You will, sir, readily understand that when we are cruising about the Bay des Chaleurs and the Gaspé coast, it is difficult to

know what is doing, or passing up along the north shore.

As regards my crew, they were all most efficient in their duties and discipline of the ship. Most of them, in fact I may say all of them, have been with me for several seasons and understand well the different duties they have to perform, especially the boarding and searching of vessels. This they do with a will and a determination that cannot be excelled and I will only be too glad to have the same willing, sober, and honest men with me so long as I have the honour to command the government revenue cruiser "Constance."

In conclusion, the "Constance" returned to port (Quebec) from her season's cruise on the 23rd November. She was placed in her winter quarters, in the Louise basin, on the 29th, and paid all hands off on the 30th, being eight months and eleven days in commission.

CAPTAIN GEO. W. PEARSON of the patrol cruiser "Dolphin" reports as follows: After making some necessary repairs to the hull of the "Dolphin" I was

ordered into commission on the 29th of April.

During the month of May and June I cruised chiefly on the north shore of Georgian Bay and through the North Channel where the illegal practice of seining and trap netting is carried on during these months, in these two months I was successful in seizing ten traps nets and five seines and two boats, and on two different occasions gave chase to seining parties.

On the 13th of July I was ordered to Lake Superior to take Overseer Elliott over his division to check over pound nets and make a general inspection of that

portion of his division.

On the 18th of July we finished and locked down through the canal, having

found everything in a satisfactory condition.

On the 19th of July I left Sault Ste. Marie for Little Current, having Overseer Elliott on board. We arrived at Little Current on the 20th, where Overseer Elliott's men had seized two boats and seines for illegal seining.

I assisted him with the cases against these men, and from the evidence produced

confiscated the two seines allowing the men to go with a reprimand.

On the 21st and 23rd of July, in company with Overseer Elliott and his two men, we lifted and destroyed six trap-nets and one extra leader.

On the 24th, Overseer Elliott and his two men left the ship.

On the 26th of July I lifted and destroyed one trap-net at the entrance to Collins Inlet Channel. I then cruised toward Owen Sound when I shipped nine seines to Ottawa as per instructions.

During the month of August I lifted and destroyed seventeen trap-nets which I found by grappling in the vicinity of Bad River, Christian, Limestone and

Sandy Islands.

On the 23rd of August I fined two men at the Umbrella Islands, twenty dollars

each for illegal fishing with trap-nets.

During the month of September I destroyed eight more trap-nets which I found by grappling in the different places of my patrol, I also made six convictions for illegal fishing, fining each.

On the 15th of October I interviewed Mr. Wilmot, a game warden acting under the Provincial Government, who had seized nine hoop-nets from a fisherman whom he believed to be fishing illegally not knowing these nets were licensed.

The nets were afterwards returned and the fisherman allowed compensation

for his loss.

During the month of November I seized eight pieces of gill-nets for illegal fishing in close season. I found that the close season had been well kept in comparison to other years.

During my season's work I found the regular gill-net men were law-abiding in

every respect and gave me no trouble.

I would be pleased to recommend the carrying into effect the numbering of boats and net buoys, which would wonderfully assist the cruiser and overseers in detecting any that might be attempting to fish without license or otherwise illegally.

I found the fall fishing to be very light on account of the lateness of the trout

coming on the shoals.

I have had numerous complaints from the gill-net men as to the privilege granted to the pound net men to fish for herring or rough fish during the month of Nevember.

During the season's cruise we have covered 5,840 miles with the steamer besides over 3,000 miles of small boat work, which is quite necessary on my patrol, owing to the numerous small inlets and bays which cannot be reached with the steamer.

In conclusion I wish to say that if it was made a punishable offence for any one to furnish web for the purpose of making seines or trap-nets, where they are not allowed, it would be a great assistance to lessen the amount of illegal fishing with these nets.

CAPT. E. DUNN, of the Dominion cruiser "Petrel," submits his report for the

season of 1897, as follows:-

In obedience to your instructions, the cruiser was fitted out and made a departure on the 27th April for Flower Pot Island, with Lt. Col. Anderson and party on board, to locate site for a new light station. The stations at Cove Island, Tobermory and Cabot's Head were also visited. The "Petrel" then returned to Owen Sound. On the 29th and 30th stormy weather made it impossible to adjust the compasses on the ranges, but on 1st May this work was accomplished, and a departure made for Lake Erie. The weather was very unfavourable, and did not reach Amherstburg until 5th May. A supply of coal was taken on, also a spar buoy, which was placed on Grecian shoal. I also visited the site of the wreck of the "Little Wissahickow," and finding one of the spars, which when the wreck was blown up, had disappeared, was floating heel up. A tow line was attached and the mast pulled clear from the wreck. This was towed to Rondeau harbour and given to the lightkeeper. On the 7th May, about 15 miles from the Canadian shore and midway between Rondeau and Port Stanley, sighted fish tug, which made off on our approach. I found net buoy, lowered both boats and lifted 74 American gillnets containing 1,400 pounds of fish, chiefly pickerel and herring. These were taken to Port Stanley, where the nets were stored and the fish sold. From this date until the 22nd May, I patrolled the lake from end to end, when by instruction I proceeded to Windsor to assist in the celebration of Her Majesty's birthday. On the 24th the ship was dressed rainbow fashion and a royal salute of 21 guns was fired. On the 25th proceeded to Lake St. Clair, where I investigated the report of illegal fishing in Mitchell's Bay, continued on the 26th. On that evening I called at Peach Island with reference to the investigation of Overseer Boismier, which was fully reported upon. Tagain resumed the patrol of Lake Erie until the 12th June, when was I engaged in investigating the complaint of fishermen between Two Creeks and Rondeau. On the 14th June, second officer Jarvis left the ship on sick leave. On that date and the following day Overseer Lamarsh was taken over his division, when a small seizure was made by him, off Kingsville, of hocks and lines. On the 22nd assisted in the celebration of the Queen's Jubilee at Port Stanley, when the ship was dressed and a royal salute of 21 guns was fired.

On the 23rd June proceeded to the gas buoy off Pelee Spit light, where grappled for, and was successful in raising the anchor and spar buoy, which had been cut off by a propeller some feet below the water. The anchor and chain were placed on dock at Pelee Island, where they now are. The irons, etc., of spar buoy were handed over to Lightkeeper Hackett, of Bois Blanc. On the 24th was engaged by instruction to investigate the matter of unpaid licenses in ex-Overseer Wigle's division. On the 1st July celebrated Dominion Day at Port Stanley, where a salute was fired. Having been instructed to proceed to Lake St. Clair, with reference to illegal fishing, did so on the 10th July, taking Overseer Boismier over his division on that lake. Nothing of importance was discovered. On the 30th and 31st July located the wreck of the schooner "Adams" by the instructions of the department, finding the report of the wrecking company incorrect. On the 12th August sighted five tugs at work, one of them considerably to the north of the boundary, and engaged in setting nets, to this one I gave chase; she succeeded in crossing the boundary before I overhauled her. I returned and picked up three nets, all that they had succeeded in setting. On the 17th August disposed of the confiscated nets for the sum of \$104.60. On the 24th August, at the direction of the department, I proceeded to Leamington, to interview ex-Overscer Wigle with further reference to license fees. On the 20th August picked up a red spar buoy adrift, which was afterwards placed on North Harbour Reef. From the 30th August until 3rd September lay by the Michigan Wrecking Company's plant at work on the wreck of the schooner

"Adams," supervising the clear nee to a depth of 20 feet required by the department. On the 30th September, by instruction, I conveyed Judge Horn and party to Pelee Island, for the purpose of holding a court of revision. On the 1st October they were conveyed back to Windsor. On the 4th October held an investigation with reference to the non-payment of license fees by the fishermen of Pelee Island.

On the 20th, investigated and reported upon the complaint of Mr. Macallum, of Dunnville, with reference to irregularities reported by him of United States fishing

steamers.

On the 22nd, by request of collector Gott of Amherstburg, I swept over the wreck of the "Grand Traverse" finding only a depth of 17 feet thereon; 25

feet was reported by the American Wrecking Company.

On the 26th, I seized foreign gill-nets, off Morgan's Point, near Port Colborne, containing a small quantity of fish. These with the nets were sold in Port Colborne. On 1st Nov., the Dominion Commissioner of Fisheries, Prof. Prince, came on board together with Mr. McGregor, M. P. with several others, who were conveyed among the Canadian islands and back to Windsor. On the 4th Nov., observed an United States fish tug at work, near but over the boundary, gave chase, but was unable to overtake it before crossing the line; after this I proceeded to Port Stanley to carry out the instructions with reference to the raising of the wreck of the schooner "H. P. Murray." For the first two or three days rough weather prevented any work being done, but on the 8th work was commenced on the wreck and by midnight the vessel was pumped out. On the following day the vessel was taken out of the harbour to the eastward of the piers and out of the way of navigation where it was grounded.

On the 18th and 20th was engaged in taking up the gas buoys in Pelee Passage and on the 22nd lifted the spar buoys from Grecian shoal and North Harbour Reef. These, together with the gas buoys, were given in charge of light-keeper Hackett, of Bois Blanc Island. On the 26th, the ship and ship's company were inspected by you at Windsor, and was much pleased at your expressions of gratification at the

appearance of the ship and ship's company.

On the 28th, departed for Owen Sound to lay up in winter quarters, arriving on the 3rd December, when ship was placed in winter quarters and crew paid off on the 4th,

REMARKS.

It affords me great pleasure to call your attention to the effectiveness of the system of patrol, maintained on Lake Erie. Knowing that formerly the movements of the steamer were closely watched and reported to the fishermen I instituted irregular runs, doubling back at times to frustrate any information they might have received as to my course and destination. I was informed by Captain Williams, that he overheard a telephone message, in which the party, a foreign fish dealer, expressed himself to the effect that they could never tell where the "Petrel" was. With but few exceptions the tugs kept on their own side, and I was frequently asked by the United States fishermen, where they might safely set their nets. I always gave them this information and the different bearings, so that they would not cross the line in ignorance of their position.

In the fall a continuous patrol was maintained over the spawning grounds, and

I have not a single violation to report.

The catch of fish in Lake Erie was, in most of the divisions, superior to last season. The Long Point Company caught more with 7 nets on the outside of Long Point than was caught by them the previous season with 14 nets, inside and out. The fishing was also good from Long Point to Point Pelee. The fishing at the two ends of the lake was reported light.

The distance logged by the "Petrel" during the season was 16,301 miles.

CAPTAIN J. T. WALBRAN, of D. G. S. "Quadra," Victoria, B.C., states that the work for 1897 commenced on 3rd January, when I left Victoria for a month's patrol of Hecate Strait, with orders to warn all foreign fishing vessels they were not

allowed to fish there, or in any other of the territorial waters of British Columbia. I made Refuge Bay, on Porcher Island, my headquarters, and when the weather was suitable made frequent cruises in the neighbourhood visiting the halibut grounds.

During my patrol I met with only one United States fishing vessel which after receiving my warning proceeded on the Alaskan waters. The tishing in the Strait during my stay, was entirely carried on by the Canadian steamers "Capilano," "Coquitlam" and "Thistle."

Some time in April, I was informed that when the "Quadra" had discontinued her watch over the strait, and had been gone about 10 days, the United States fishing steamer "Edith" made her appearance again on the grounds, and also three sailing

vessels, two of the latter making Butler Cove their headquarters.

The "Quadra" returned to Victoria from Hecate Strait at the beginning of February and during that month and March was off duty, the crew employed painting and cleaning the holds, etc., and the engineer's staff overhauling the machinery.

On the 27th of April a short cruise was made to Cla-oose to hold an investigation into some complaints which had been forwarded to the department by the

lighthouse keeper at Carmanagh.

On the 6th June I proceeded for a cruise along the west coast of Vancouver Island calling at the principal Indian villages, where I imformed the inhabitants that fishing with seines was strictly prohibited. In Quatsino Sound, two fishing weirs which obstructed the ascent of salmon up the Maad and Marble R vers, and which had been placed in position by the neighbouring Indians, were destroyed and progress allowed the fish. Returned to Victoria on 16th June; on the 28th June I proceeded for another cruise along the west coast, in the interest of the sealing industry, to see that the Indian hunters, etc., after duly signing articles, joined their vessels. All villages were visited, frequented by the sealing schooners, and at each place a meeting held at which Indians stated they would join their respective vessels and these promises were carried out with the exception of some Indians at Catala Island, Esperanza Inlet. The Indians here refusing to join their ship, the "Arietis," were arrested, and the case tried on the "Quadra" by myself in my capacity as a stipendiary magistrate. After a thorough investigation with the case, the Indians were convicted but as several extenuating circumstances in favour of the latter were brought out during the trial, the court was adjourned for twelve hours to allow the prisoners to consider whether they would join their vessel and do their duty or be punished according to the statute. In the morning they all agreed to join, providing the articles were filled out as had been promised them when signing, and this having been done before me, the Indians went on board their ship, and thus this troublesome incident was concluded in a satisfactory manner to all concerned.

I wish to point out in connection with this case, the great avantage it was to the sealing community, that I was enabled as a magistrate to try this case on the spot where the offence occurred, for had I not been in a position to do so, the prisoners and witnesses would have all had to be sent to Victoria for trial, thus causing great delay and expense to the owners and captain of the vessel. I returned from this cruise on 8th July, and on the 20th left Victoria for Rivers Inlet on fishery service. Information had been received from the managers of the canneries in the inlet, that it would be desirable to have the presence of the "Quadra" there for a short time as many United States fishing sloops and other illegal vessels were in the neighbourhood. On my arrival the strange vessels had disappeared, as a rumour, a few days before, had gone round the canneries that the fishery cruiser had been sent for and was coming. Before leaving the inlet, I investigated a complaint made by the majority of the canneries that the fishing limit on the Wannock River was placed too far up the stream, found this to be the case, and recommended in my report to the department, dated 28th July, that the fishing limit should be placed at least 600 yards down the stream. I returned to Victoria on 27th July.

On August 12th I made a seizure at Becher Bay of a seine and large canoe which was being illegally used by the Indians there in catching salmon for com-

mercial purposes.

On the 29th of the same month the "Quadra" was placed at the disposal of the Department of the Interior, and I proceeded to Wrangel, Alaska, with Mr. W. T.

Jennings, surveyor, and his party.

On 30th September, the "Quadra" was again placed at the disposal of the Department of the Interior and I conveyed the Honourable Clifford Sifton with a large party and a detatchment of the North-west Mounted Police to Skaguay and Dyea. The ship was at anchor off Skaguay fourteen days whilst the Minister and a small party crossed over the Dyea Pass to Tagish Lake, returning to Skaguav via the White Pass. On the return journey the "Quadra" visited Juneau, Takee Inlet, the upper part of which inlet was completely blocked with ice, Port Simpson and

Mettah-cattah, returning to Victoria on 2nd November.
On 19th November the "Quadra" proceeded on fishery service to the west coast of Vancouver Island to investigate the complaints which had reached Victoria about the Indians at Clayoquot fishing with seines. I found the complaints correct, but fishing for the season was over, so I gathered the Indians of the neighbourhood together and warned them of the consequences of such conduct. On my return from the cruise on the 24th, a report was forwarded to the Department of Marine and Fisheries with my suggestions to remedy this illegal fishing by the nation of Clayoquot Sound.

CAPT. J. H. PRATT, of the cruiser Curlew forwards his annual report on the operations of the "Curlew" during the past season as follows:-

During the winter the ship was laid up at St. John, N.B., and all necessary

repairs were made to the machinery.

Orders were received from you to place the ship in commission on 15th April and on that date the colours were hoisted, and the ship's company signed the ship's book. Stores were taken on board, and on the 16th we steamed down the bay to the Passamaquoddy district. Small herring suitable for sardine purposes were just beginning to strike in down there, and the weirs were making fairly good catches. Several United States fishermen had been anchored off Eastport wishing to procure bait for bank fishing, and they only succeeded in getting a moderate quantity.

Line fish were also coming into the bay in small schools and the fishermen

were making fairly good catches.

Issuing weir licenses and attending to various duties with the local officers in connection with the management of herring weirs, occupied our time till 5th May, when receiving orders from you we cruised around to Shelburne.

There you joined the vessel and cruised to Yarmouth with us, issuing final ins-

truction for the season's work.

Cruising in the vicinity of Cape Sable until on the 22nd of May we anchored at Liverpool, among a fleet of 16 United States seining schooners. Next morning getting under way at daylight we sighted an additional 31 seiners hailing from the United States also, and standing off shore, from behind Mosher's Island.

From this date to the last of the month mackerel began to show themselves along shore and a few hauls were made by the seining vessels. The nets along the

shore also got moderate catches.

At the beginning of June we cruised to the eastward of Halifax, and on the 4th we sighted the fleet between White Head and Louisbourg. Very few fish were being taken by the fleet, and they accounted for the small catch by the unusual amount of fog and stormy weather that they had experienced during the previous month.

On the 8th of June we cruised to North Sydney, finding no foreign fishing ves-

sels there.

Next day we returned to the westward, enforcing the lobster regulations in the numerous harbours between Canso and Halifax, and found that the fishermen and factories were obeying the regulations.

We arrived in the Bay of Fundy again on 19th June, and found that fishing of

all kinds had been fairly good during our absence in Cape Breton.

Acting on your orders I proceeded to St. Stephen on 20th June to assist the town authorities in the appropriate celebration of the Queen's Jubilee. We were

well received by the town authorities, and on Jubilee day thousands visited the ship and 14 of the ship's company took part in the parade. Orders were also received from you to be at Calais, Maine, at the celebration held there on 5th July. We were well received by the mayor and other civic officials, and given a prominent place in the procession. Large numbers of the inhabitants inspected the ship during the day.

During September and October we were employed preventing illegal lobster fishing to the eastward of Halifax, and on 5th October, we were at Georgetown,

P.E.I., with the other ships of the fleet.

We took part in the two days' sports held there by the Fisheries Protection Service under your command, which were greatly enjoyed by the crew of this vessel. At the shooting competition held on the first day of the sports, a team of five men from this ship were fortunate enough to win the handsome silver challenge cup, competing against some very good teams from the other ships.

I might be pardoned for saying here that the bringing of the ships together for those friendly competitions will have a most beneficial effect in making the ship's companies acquainted with one another, and also in an interchange of ideas which

will promote that friendly feeling which should exist in this service.

On 12th October we had the honour of escorting the flagship "Acadia" (which vessel had on board Lord and Lady Aberdeen) from Pictou to Charlottetown, and with the blue jackets and officers from other ships, were inspected by His Excellency the Governor General on the parade grounds at the latter place.

We cruised on the Nova Scotia coast preventing illegal lobster fishing till the

middle of November when you ordered our return to the Bay of Fundy.

On the Nova Scotia coast to the eastward of Halifax, I found that cod fishing had been very poor all year, which accounted for so many people being engaged in illegal lobster fishing. I found many of the people in very poor circumstances, owing to this failure in line fishing.

Previous to our return, however, the accidental drowning at Ship Harbour, of one of the seaman cast a deep gloom over our ship. All the boats were absent from the vessel, looking after illegal lobster fishing, when the boat containing this young

man among her crew was capsized, and he did not rise to the surface.

With the aid of grapples his body was recovered next morning. An inquest was held, and his body shipped to his home at Tiverton, N.S., by way of Halifax.

Arriving in the Bay of Fundy on the 20th November the taking of the fishermen's bounty claims was begun, and that work, together with arranging various fishery matters, occupied our time till 12th December. On that date we steamed to St. John, discharged the crew and put the ship out of commission. The next day I placed the vessel in winter quarters in Magee's dock, and the engineer's staff began overhauling machinery.

Few reports were heard during the season of United States seiners poaching owing to the vigilant patrol kept up by the several cruisers over the whole coast. The catch of mackerel by the United States vessel was far below the average,

some of them after several weeks cruising, did not catch a single mackerel.

The lobster catch of the Nova Scotia coast, has also been less than the previous seasons but the prices paid to the fishermen were fairly good.

ANNEX B.

List of United States Fishing Vessels, boarded by Dominion Government Cruisers, in Canadian waters, on the Atlantic coast and in the Gulf of St. Lawrence, during the season of 1897; showing Port of Registry of each vessel, tonnage and number of men on board, &c.

Annie Wesley Gloucester do do do do Annie C. Hall. do do do do do do do do do do do do do			45		
1 Atlanta Gloucester Boston Gloucester Glouc		No. of Men.	License or no License	Date, Left	Home.
Annie Wesley			Lic		
2					
Annie Wesley	98	18	No	20th April,	1897.
4 Alice R. Lawson	112	17	No		1897.
4 Alice R. Lawson	88 115	19 19	Yes	28th March, 1st April,	1897.
Annie Greenlow	84	17	No	190th' May	1897.
6 Alhice M. Parsons do 8 Agnes E. Downs do 9 Arthur E. Story do 10 A. R. Atwood Waldoboro, Me 11 Alice C. Jordon Gloucester 12 Bessie M. Devine do 13 Charles Levi Woodbury do 14 Commonwealth Provincetown 15 Carrie E. Phillips Provincetown 16 Cecil H. Lowe Gloucester 17 D. L. Grafton Salem, Mass 18 Dora A. Lawson Gloucester 19 Davy Crockett do 20 E. C. Hussey Beverly, U.S. 21 Electra Gloucester 22 Emma Portland 23 Edith M. Prior Gloucester 24 Eva M. Martin Ellsworth, Me 25 Elia McDoughty Portland 26 Elsie M. Smith Gloucester 27 Elsie M. Rowe do 28 Ellnora do 30 Eben Parsons do 40 Else Tarr do 32 Epes Tarr do 33 Edward B. Holmes do 34 Ethe	102	17	No	20th April,	1897.
Agnes E. Downs	72	17	No	15th May,	1897.
9	80	17	No	20th April, 15th May, 20th do 25th June,	1897.
11 Alice C. Jordon. Glotteester. 12 Bessie M. Devine. do 13 Charles Levi Woodbury. do 15 Carrie E. Phillips. Provincetown 16 Cecil H. Lowe. Gloucester. 17 D. L. Grafton Salem, Mass 18 Dora A. Lawson. Gloucester. 19 Davy Crockett. do 20 E. C. Hussey. Beverly. U.S. 21 Electra. Gloucester 22 Emma. Portland. 23 Edith M. Prior. Gloucester 24 Eva M. Martin. Ellsworth, Me 25 Ella McDoughty. Portland. 26 Elsie M. Smith. Gloucester. 27 Elsie M. Rowe. do 28 Ellnora. do 29 Emma and Hellen. do 30 Eben Parsons. do 31 Emma E. Wetherall. do 32 Epes Tarr. do 33 Edward B. Holmes. do 34 Ethel B. Jacobs. do 35 Effie M. Morrisey. do 36 Emma M. Dyer. do 37 Edward A. Rich. do	98	18	No	25th June,	1897.
11 Alice C. Jordon. Glotteester.	41	5 17	No	10th Aug., 10th Sept	1897. 1897.
13 Charles Levi Woodbury do do do do do do do d	82 91	18	Ves	1st April,	1897.
13 Commonwealth	100	17	No	15th May,	1897.
Carrie E. Phillips.	81	17	No	. 5th do	1897.
16 Cecil H. Lowe. Gloucester 17 D. L. Graftton Salem, Mass 18 Dora A. Lawson Gloucester 20 E. C. Hussey. Beverly, U.S. 21 Electra Gloucester 22 Emma Portland 23 Edith M. Prior. Gloucester 24 Eva M. Martin Ellsworth, Me 25 Ella McDoughty Portland 26 Elsie M. Smith Gloucester 27 Elsie M. Rowe do 28 Ellnora do 29 Emma and Hellen do 30 Eben Parsons do 31 Emma E. Wetherall do 32 Epes Tarr do 33 Edward B. Holmes do 34 Ethel B. Jacobs do 35 Effie M. Morrisey do 36 Emma M. Dyer do 37 Edward A. Rich do 38 Frank A. Rackliff <td< td=""><td>110</td><td>18</td><td></td><td>. 15th do</td><td>1897.</td></td<>	110	18		. 15th do	1897.
18 Dora A. Lawson Gloucester 19 Davy Crockett do 20 E. C. Hussey Beverly, U.S. 21 Electra Gloucester 22 Emma Portland 23 Edith M. Prior Gloucester 24 Eva M. Martin Ellsworth, Me 25 Ella McDoughty Portland 26 Elsie M. Smith Gloucester 27 Elsie M. Rowe do 28 Ellnora do 29 Emma and Hellen do 30 Eben Parsons do 31 Emma E. Wetherall do 32 Epes Tarr do 33 Edward B. Holmes do 34 Ethel B. Jacobs do 35 Effie M. Morrisey do 36 Emma M. Dyer do 37 Edward A. Rich do 38 Frank A. Rackliff do 40 Forayling do <t< td=""><td>75</td><td>13</td><td>No</td><td>15t Aug., 15th do 20th May, 1st Sept.,</td><td>1897.</td></t<>	75	13	No	15t Aug., 15th do 20th May, 1st Sept.,	1897.
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Effie M. Morrisey	125	18	No.	. 10th Sept.,	1897.
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37	74	14		15th Oct.,	1897.
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39 F. W. Homans	99	17	No.	. 1st May, . 12th Sept.,	1897.
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52 Henry M. Stanley Groucester	117	18		, 10th May,	1897.
52 Henry M. Stanley Groucester	127	16	INO.	, lizth do	1897.
52 Henry M. Stanley Gloucester	34	9	NT.	. 15th Aug., . 1st Sept.,	1897. 1897.
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Of Habbit Har Calabrata	106		No.	8th Oct.,	1897.
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57 Henry W. Longfellow do do	78		No.	25th Sept.,	1897.
58 Iolanthe do	71			20th April	1997. 1897.
59 J. R. Atwood Waldoboro, Me	$\frac{42}{112}$		No	. 10th do 5th May, 15th April	1897.
60 Jennie B. Hodgdon Gloucester do	68		140.	15th April	

List of United States Fishing Vessels, boarded by Dominion Government Cruisers, in Canadian waters, &c.—Concluded.

33 Joo Joo Job Joo Job Job Job Job Job Job	G. Blaine bn S. Presson hn Smith. lia E. Whalen sie M. Calderwood mes A. Garfield. ttona uis & Rosie neille maseer ma & Maud zzie M. Centre zzie A. Parkhurst orna Doon S. Ayer aggie & May abel D. Hines arganetta ystery adonna arathon, ist	do do do do do do Booth Bay, Me Gloucester do do do do do do do do do do do do do	98 89 62 96 86 70 103 74 99 94 75 77 115 69 76 88 92	17 16 14 18 15 12 17 17 17 17 17 17 17 18 13 16 19	No. 1 Yes. 2 No. 1 No. 1 No. 1 Yes. 2 No. 1 No. 1 Yes. 2 No. 1 Yes. 2	oth Oct., oth April, oth May, oth Ao oth Aug., oth Sept., oth do oth do .lst Oct.,	1897. 1897. 1897. 1897. 1897. 1897. 1897. 1897. 1897. 1897.
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7 Or 8 Oli 9 Or 0 Or	ellie Burns	Portland	45	14	Ves. 2	5th June,	1897
8 Oli 9 Or 0 Or	pheus	Gloucester	105	16		8th April,	1897
9 Or 0 Or	iver Wendell Holmes	do	101	17	No 1	5th May,	1897
	ient		89	16	1 14	4th do	-1897
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5 Ri	chard Lester	do	69	16	No	8th do	1897.
6 Ra	chard Lesterlph Eaton	do	68	15	Yes. 2	5th July	1897
7 Re	eporter	do	78	16	Yes 2	oth July, oth do	1897.
8 Ro	bin Hood	do	88	17	No	1st Oct.,	1897.
	eculator	do	104	17	No		
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$\frac{5}{6}$ $\frac{V_1}{V_1}$	king	do	62	13	1	oth Oct.,	1897.
7 W	king	do	104	18	Yes	1st April.	1897.
s W	inona illiam E. McDonald	do	93	16	1	lst May,	1897.
9 W.	F. Whitten	do	127	17	1 8	3th do	1897.
0 W.	. A. Morrisey	do	117	18	3	lst July,	1897.
	· ** ** *** *** ** * * * * * * * * * *		10,360	1,872			

Memo.—13 vessels left home on or before the 10th April.
9 do between the 10th April and 1st May.
33 do do 1st May and 15th May.
12 do do 15th May and 1st June.
56 do after the 1st of June.

FISHERIES INTELLIGENCE BUREAU.

There is the same number of reporting stations as last year, 55 all told. Mr. Hutchins, the clerk in charge in Halifax, has kept myself and the public very well posted in regard to the movements of the fish, and has performed his duties to my satisfaction.

Appended is a list of reporters, also the annual report of the Fisherics Intelli-

gence Bureau.

The whole most respectfully submitted,

O. G. V. SPAIN,

Commander of the Fisheries Protection Service of Canada.

List of Fisheries Bureau Reporters outside the Civil Service.

Residence.	Name.	Allowance
		-
Beaver Harbour, N.B	E. W. Cross	15.00
Bloomfield, P. E. I	John Doyle	15 00
Caraquet, N.B	Miss E. D. Chenard.	15.00
D'Escousse, C.B	R. F. Bourke	15.00
Escuminac, N.B	J. J. Kearv.	15 00
Gaspé, P.Q	J. J. Annett	15.00
Grand Manan, N.B.	E. A. Calder	15 60
Grand River, P.Q	Mrs. John Carbery	15 00
Ingo ash, C.B	E. B. Burke	15.00
Isaac's Harbour, N.S	S. R. Giffin	15 00
L'Ardoise, C.B	John McIsaac.	15 00
Long Point, P.Q.,	John Vibert	15 00
Lunenburg, N.S	, W. A. Zwicker	15.00
Magdalen Islands	J. A. LeBourdais	15 00
Meat Cove, C.B	Alex. B. McDonald	15.00
Newport Point, P.Q	Mrs. Meunier	15 00
Paspébiac, P.Q	Miss Ada Beck	. 15 00
Percé, P.Q	Miss Kate Beck	15 00
Point St. Peter, P.Q.	Miss Kate Beck	15 00
Salmon River, N.S	J. H. Whitman	15.00
Seven Islands, P.Q	P. R. Vignault	15 00
Shippegan, N.B	P. R. Vignault	15 00
S. W. Point, Anticosti	Miss Grace Pope	15 00
Whitehead, N.S	C. H. Felthmate	15 00
Yarmouth. N.S.	F. L. Hatfield	15 00

List of Fisheries Bureau Reporters who are Government Officials.

Residence.	Name.	Allowance.
Arichat, West, C.B. Bayfield, N.S. Campobello, N.B. Canso, N.S. Cheticamp, C.B. Digby, N.S. Gabarus, C.B. Georgetown, P.E.I.	J. P. Brennan C. P. LeLacheur. E. G. Randall A. J. Clarke Thos. C. Cook S. Aucoin. C. E. Aucoin. J. M. Viets. R. McLean Chas. Owen. J. C. Bourinot	\$ cts. 15 00 15 00 15 00 5 00 15 00 5 00 10 00 15 00 15 00 15 00 15 00
Liverpool, N.S. Lockeport, N.S. Louisburg, C.B. Mabou, C.B. Malpeque, P.E.I. Margaree, C.B. Musquodoboit Harbour, N.S. North Sydney, C.B.	J. H. Dunlop. J. R. Ruggles. P. O'Toble Louis McKeen J. M. McNutt M. A. Dunn George Rowlings. A. G. Hamilton P. T. Fougere	15 00 15 00 15 00 15 00 15 00 15 00 15 00 15 00 15 00
Port Hood, C.B. Port La Tour, N.S. Port Medway, N.S. Port Mulgrave, N.S. Pubnico, N.S. Sand Point, N.S. Spry Bay, N.S. St. Ann's, C.B.	E. D. Tremaine. J. W. Taylor. E. E. Letson David Murray J. A. D'Entremont R. H. Bolman W. C. Henley D. McAulay D. Urguhart	15 00 15 00 15 00 15 00 15 00 15 00 15 00 15 00 15 00

ANNEX C.

DETAILED REPORT OF THE FISHERIES INTELLIGENCE BUREAU.

HALIFAX, N.S., 30th November, 1897.

Commander O. G. V. Spain, In charge Fisheries Protection Service of Canada.

Sir,—I have the honour to submit the annual report of the Fisheries Intelligence Bureau for the season 1st May to 15th October, 1897.

NOVA SCOTIA.

BAYFIELD.

Herring struck in plentifully about the last of April and during the first week of May several nets had 4 barrels each. Although only light catches were made during the second and last weeks of May and June the average has been fairly good.

Lobsters were reported in light quantities on 4th May, but the catches did not improve until the 14th, from which date they varied from good to fair until 7th June; with the exception of some fair catches from 18th to 24th June inclusive, the fishery was poor until it closed on 12th July. The season's catch is considered in excess of that of 1896.

Mackerel did not strike this year until about the 19th June from which date light but regular catches were made until 19th August when there was a slight improvement; and until 3rd September the average catch was fair. During the remainder of September no fish were taken owing to heavy northerly winds in the bay.

Salmon were first taken on 15th June, but as all nets were not set the catches were light until the 27th, when they became fair and remained so until about 12th July, from which date the catches were light until the close of the season. It is reported that the total catch is the smallest known for the number of nets set.

CANSO.

Codfish.—The inshore catch of codfish shows but little improvement over 1896 up to this date. The outfit was about the same and bait was about as usual, owing to stock kept in freezer making up for greater scarcity of squid on the grounds.

It must be admitted that the inshore fishing grounds show a growing scarcity of codish, and the fishermen of fitty years ago tell strange tales of catches made then

within a stone's throw of the shore, that cannot be duplicated now,

It is not easy to account for this. Perhaps the many thousands of lobster traps which line our shores up to the first or middle of July have something to do with it, and it may be that the increased outfit for fishing and increased traffic of steamers and sailing vessels disturbing the inshore waters are factors in producing this result.

The bank fishermen, as a rule, found no difficulty in making their summer trip, though some vessels went home with poor fares. The catch of the Nova Scotia bankers must be up to the average. Fewer vessels start in the early spring for fish, and many make but one trip for the season, beginning in the latter part of May or first of June. The spring trip, as a rule, was an unprofitable one.

Haddock.—The spring catch of haddock was a failure, but the summer catch up to September was an improvement on 1896. The September catch which in 1896 was a good one, was this year almost a complete failure, only about one-fifth of that of 1896. At the time of writing (23rd October) it shows some improvement. It was supposed there was never a scarcity on the outer grounds, and a firm here fitted out a steamer with twenty four thousand hooks for haddock fishing on the Middle Ground forty-five miles distant. The result, so far, has been disappointing, only few haddock having been caught, but it is too soon to pronounce the enterprise a failure. This boat has made some good catches of codfish on Canso Bank, twenty-five miles distant, bringing in as high as thirty thousand pounds of codfish as the result of one day's fishing.

During the autumn the waters of this coast seem to swarm with dog-fish, which interfere greatly with the business of catching edible fish. On her last day out the haddock steamer "Sea Bird" had a dog-fish on about every hook. Before the trawl reached the bottom it was strung full of them. It is to be regretted that some

use cannot be found for these fish.

Mackerel.—The spring and summer eatch of mackerel was disappointing in the most of localities. Some fairly good catches were made in Chedabueto Bay, but on the western and Cape Breton shore very few were taken. The mackerel taken were of very large size, averaging about two pounds each, while many of them went nearly double that weight. A few mackerel, supposed to be of the fall run, have been taken in October. It remains to be seen what the final result of the fall catch will be, but as there has been a great scarcity of mackerel in the North Bay the fishermen are not hopeful of doing well.

Those caught up to date are mixed as to size, averaging not much over a pound and a half, and do not appear to belong to the same school of fish as those which passed north in June. The question is what has become of the June school. It was reported last year that large bodies of mackerel had been seen on the coast of Labrador, and this year at least one Massachusetts vessel went down that coast to

reach the mackerel in their haunts. The result is not yet known.

Herring.—The June and July catch of fat herring was a failure on the whole coast. In August there was a fair catch in some localities, notably in the vicinity of Isaac's Harbour in the western end of this county. It is difficult to tell what the September catch would have been. Poor herring are so little in demand that there is very little interest taken in the catching and curing of them, and no doubt the September catch would have been ten times as large had there been an active demand for them.

Herring have ceased to be a large factor in the fish production of Nova Scotia. They are valuable in some parts of the province for lobster bait, Clark's Harbour alone requiring some five thousand barrels for this purpose, but they are largely

going out of use as food for men. Prices have ruled low.

Hake.—But few are caught here. Georges Bay and the waters near Prince Edward Island seem to be the home of the hake in the eastern end of Nova Scotia. It would be interesting to know what success would follow the use of the English beam or otter trawl on the smooth level bottom of those waters. If it succeeded it would be a solution of the bait question, which is so perplexing to the fishermen of those parts, and might ensure a much larger catch of a fish which is growing in the estimation of consumers and dealers every year. It would also solve the dog-fish problem.

Lobsters.—The catch of lobsters on the coast was smaller than that of the previous year. This was due to the heavy gales which prevailed in June, breaking up the fishermen's gear and almost completely stopping business. Some who fished through the greater part of July found lobsters plentiful and made it the best month of the season. The tendency of prices has been upward, and in this way the fishermen

have been partly compensated for their short eatch.

There seems to be a multitude of opinions as to the best measures for the regulation of this business and the preservation of the lobster from extinction. We believe the present law as to the close season is probably as near the right thing as can be got, and should be strictly enforced. At present it is not enforced, and much

illicit packing is reported. We think it is unwise to make any regulation as to the length of lobster to be caught, for the simple reason that it is not and cannot be enforced. Such a law had better be repealed. The same remark applies to berried lobsters.

Squid.—There has been a scarcity of squid on this coast this year. This scarcity may only be temporary or it may be the beginning of a period of scarcity for these

valuable bait fishes such as existed some years ago.

The most of salt fish have ruled low in price this year, salt mackerel being the exception. The low prices coupled with a scarcity on the inshore grounds has made 1897 a poor fishing season for the most of those engaged in the business.

DIGBY.

Codfish were not reported this season until 11th May, when for a few days fair catches were made. After this they became scarce, and with the exception of some fair fishing about the middle of June, the catches were light but regular the whole season. During August and September dog-fish were very troublesome and are reported to be more numerous each year and to remain longer in the bay. Towards the end of the season scarcity of bait and bad weather interfered with fishing. Total catch estimated at 5,969 lbs.

Haddock.—With the exception of some fair catches about the middle of June, they were scarce from 6th May to 9th September, when they somewhat improved, and fair catches were made until the close of the season. Total catch said to be about

10,090 lbs.

Hake appeared 14th May and the catch has been a uniformly good one. Total estimated at 18,520 lbs.

Halibut appeared in fair quantities on 6th May, but the catch has been poor,

being estimated at 3,180 lbs.

Herring.—This district once famed for the "Digby chicken" which was such a source of large profit and a valuable industry is rapidly passing into obscurity as far as its herring fishery is concerned. Several reasons are assigned for this deterioration:—

1st. Because the coast line is fouled by the putrid bait of lobster traps which keep the herring from striking in to spawn or feed.

2nd. Drifting for them for bait with oil torches.

3rd, and perhaps the most destructive cause, is allowing so many millions to be taken for the sardine factories. All these causes have nearly destroyed the fish in these waters, or have kept them off so many years, that they have found other feeding and spawning grounds; and as a consequence fishermen of this district are compelled to seek and purchase bait on the north shore or elsewhere at loss of time and much expense. Total catch is estimated at 236 brls.

The following paragraph which appeared in the Halifax Herald of 16th

November relative to bait in this section, is well worthy of some notice:

"The steamer 'Wesport' has finished her regular sailings between St. Mary's ports and Weymouth. The past season the Insular Steamship Company, owners of the 'Westport,' put the boat on the route from 'Wesport' to St. John, a weekly service. This has been a great convenience, not only to the travelling public and dealers of Long and Briar Island, but to the fishermen. Heretofore vessels coming in Saturday night with their week's catch of fish, were unable to get back to the fishing grounds for a week or ten days on account of having to go up the Bay of Fundy for bait. When the steamer was put on the St. John route she would bring twenty and thirty barrels of fresh bait on Saturday and the whole fleet of vessels would be baited up, and back to the fishing grounds on Monday, thus enabling the fishermen to make a better season's catch, and by so doing, a large amount of money exchanged hands, and all enjoyed a good share of prosperity. A subsidy has been asked from the Dominion Government for this route, and it is hoped that the amount will be granted the coming year."

Lobsters were first taken on 6th May in light catches but soon increased and until 29th June were taken in fair quantities, although the fishery was greatly broken by had weather. The total catch the past season is estimated at 336 brls. in comparison with 1,247 brls. in 1896. It is reported that if lobsters are taken during the winter and spring months, as formerly, it is feared that next season's catch will be a failure. The winter fishing is held by many to be the chief cause in killing off the supply—taking female lobsters at any time and also those under 10 inches. All fishermen and packers agree that in order to save this valuable fishery from total destruction, new regulations as to size and times of catching should be made.

HALIFAX.

Mackerel were reported in large schools off the harbour on 4th October and catches varying from 40 to 200 barrels, were made. Although portions of the schools struck in the various coves about the harbour, still the main body are reported to have kept well outside. The fish were pronounced No. 1.

Lobster.—During the past season the following quantities of lobsters were

exported to the United States from this port:-

June	6.6	6.6	4485	64	66	 ***************************************	38,489
\mathbf{T}_0	tal		6048				\$55,118

ISAAC'S HARBOUR.

Codfish were first reported in fair quantities on 14th June but the catches throughout the greater part of the season were light. During October very good fishing was reported. Season's catch considered an average one.

Haddock and Halibut.—Only few taken during the season.

Herring were taken in light catches first on 12th May and the catch throughout the season is considered very fair: there having been about 3000 bbls. taken between New Harbour and Beckerton.

Lobsters were first reported on 5th May in small quantities; but bad weather prevailing the catches remained light throughout the month. In the early part of the season fishermen experienced great loss of traps which to an extent accounts for the very light catch.

Mackerel were first taken on 8th June but it is reported that only a few barrels

were taken during the season.

LIVERPOOL.

Alewives were taken in light and fairly regular catches from 3rd May to 4th June.

Codfish were first reported on 15th May, but the catches, with few exceptions, were light until 8th September when they improved, and the average catch was fair until 15th October. In the latter part of May and former part of June good fishing was reported on off-hore grounds, but later in the season bait was scarce and was the chief cause of poor catches.

Haddock although first reported on 18th June were not taken regularly until 22nd July, from which date the catches were light until about 8th September, after

which the average catch was fair until the season closed.

Herring.—On 15th May off shore crafts reported herring striking and the average

catch per vessel was about 1 barrel.
On 22nd May and 4th June good quantities were reported on off shore grounds, but none were taken inshore until about 16th August from which date the catches varied from \frac{1}{2} barrel to 5 barrels per boat until 15th October.

Lobsters were first reported on 3rd May and with the exception of fair catches from the 12th to 15th May inclusive, the catches were light until fishing closed about 28th June. About 28th May and 11th June a great many traps were destroyed

on account of the heavy seas.

Mackerel were first reported on 20th May when an American seiner is reported to have taken 14 barrels large mackerel off here. No catches were made by local boats until about 11th June when one boat was reported to have taken 20 mediums. They were not afterwards reported until 14th August from which date the eatches were light and irregular until 15th October.

Squid were very searce this season, there having been but light catches made

throughout July.

LOCKEPORT.

Codfish were first reported in good quantities on 10th May, and although the weather was bad, one boat got 11 quintals. During the remainder of the month the weather continued very rough, and best boats only varied from 12 to 72 qtls., although herring bait was pientiful on ground. Throughout June the weather was pretty much as in May, and fish were reported plentiful on grounds, but the weather was unfavourable. On 11th June a severe storm did much to injure this fishery, and during the remainder of the mouth the catches were light and bait scarce. On 29th June dog-fish appeared, but were not reported to have given much trouble. On 3rd July, as squid were plentiful on the grounds, cod somewhat improved, and the catches throughout that month were on an average fair, and bankers were reported doing well. During the remainder of the season the inshore fishery was poor and bait scarce, but from 12th August to 24th September, fair fishing was found on off-shore grounds, and about former date were reported plentiful on Middle Bank. Total season's catch is somewhat below that of 1896. In addition to the total catch, it is reported that 400 casks, or 14 000 gallons cod oil were extracted.

Clams.—During the past season 1,130 barrels were taken for bait.

Haddock, although not reported, appear to have been taken in light quantities, as will be seen in the statement.

Hake was also not reported, but the total catch, as per statement, shows a very

large increase.

Halibut. - From 17th May to 25th July, light but irregular catches were

reported, and the total catch is estimated at 3,000 pounds.

Herring, although reported plentiful on grounds from 17th May, were not taken inshore until about 5th August, when light catches were made at Green Harbour; and until the end of the month varied from an average of 40 fish to one barrel per net. From 1st to 17th September, the catches remained light, but on the 18th they greatly increased, and for a few days some excellent catches were reported. From 21st September until 11th October, they were rather scarce, except at Green Harbour, where they were reported plentiful on 6th October. On 11th October herring were noticed in abundance in the harbour, and very large catches were expected. The total catch, outside of the quantities used for bait and home consumption, is estimated at 3,000 barrels, or 600,000 pounds, which is an increase over last year's catch by 1 000 barrels.

Lobsters.—With the exception of some good catches during the second and last weeks of May, the catches were poor throughout the season. About the last of

May fishermen suffered the loss of many traps.

Number of live lobsters taken for export. 131 660.

" canned, 1,100 cases, or 52,800 pounds.

Mackerel, although reported schooling at headlands near this station on May 29th, were not taken until 17th June, when 50 were captured by net. Nothing was afterwards heard of them until 10th September, when they appeared in fair quantities at West Head. During the first week of October light catches were made at Raen Island. Total catch estimated at 3 barrels, or 600 pounds.

CATCH OF FISH AT LOCKEPORT STATION FOR 1897.

Total	Total quantities of fish by 6 vessels do 18 do Boats from Port Hebert to the Blue Island	689,200	Proportion Cod do Haddock. do Hake. do Pollock. Total	31,711 4,394
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LUNENBURG.

Codfish were taken in fair catches from 22nd May to 1st June, but from that date the fishery has been poor, owing principally to the scarcity of bait, and the shore eatch is said to have been the poorest for years. Fishing for the season on shore soundings, Quero and Grand Banks and North Bay was good; Middle Bank and the western part of the Labrador very good, while on Western Bank it was poor. On the whole the season's catch is above the average. Appended are lists of the banking fleets of this dictrict, together with their respective catches.

Haddock were taken in good quantities from 24th June to 1st July when boats averaged 2 qtls., but since that date the catches have been poor, owing to the scar-

city of bait, and the total catch is reported below the average.

Herring.—The first bank herring were taken this season on 21st May from which date they were good until the 26th. Since latter date there were not over 5 barrels caught and the season's catch is considered the poorest ever known.

Lobster fishing commenced 1st January and closed 30th June. Those caught in January, February, March and April were shipped alive to the United States, and

although prices were good, the season's catch has been poor.

Mackerel were first taken on 21st May from which date boats averaged 50 large fish daily until the 31st. From June 4th to 10th the average was 25 medium fish, while throughout October the boats only caught a few dozen. Total season's catch considered the poorest for years.

Salmon.—On 21st May, it was reported through the columns of the Halifax Chronicle that very few salmon had been taken in the La Have River this

season but that several had been caught at Cherryfield.

Squid have been scarce on shore this season and also on Quero and the Grand

Banks. None were taken on Middle Bank.

Dog-fish—It is reported that this destructive fish is getting more numerous each year and keeping other fish away, and it is suggested that Government allow the fishermen a bounty to eatch them as they are of no value.

LUNENBURG BANKING FLEET.

Port.	Number of Vessels.	Catch.
Lunenburg	38	Qtls. 93,150 4,900 5,400 66,785 9,100 11,700 14,900 5,565

MUSQUODOBOIT HARBOUR.

Alewives were taken in small quantities from 31st May to 4th June. Total catch about $\frac{7}{8}$ short of last season's.

Coufish were first reported on 27th May, and the catches were light until 29th June, when they somewhat improved and the overage catch until 5th August, was

fairly good. During the remainder of the season the catches were irregular but varied from fair to poor. The total season's catch by inshore boats in this district, comprising all sections between Dartmouth and Tangier, will be about 50 per cent of last year's catch. Vessels from this port which went to North Bay brought back fair catches.

Haddock struck in on 5th July, and the catches were almost identical with cod.

Total catch about \(\frac{5}{8} \) of last season's eatch.

Herring first appeared on 16th June and have been unusually scarce the whole season; scarcely enough having been taken for bait. The fall catch to 1st

November will be about 25 per cent of 1896.

Lobsters throughout April and May were somewhat plentiful, and the prospects were very encouraging; but the continued rough weather greatly interfered, although they were in fair quantities on the ground, throughout June and particularly so between Chezzetcook and Clam Harbour during the second week of May. On the whole the pack will nearly equal that of 1896.

Mackerel have been nearly a total failure. Estimated catch not over 20 barrels. Salmon have been very scarce the past season; not over 35 taken at this station.

PORT LA TOUR.

Herring appeared, as usual, on 3rd May in fair quantities, but bad weather setting in no catches worthy of note were made until the 11th from which light and regular catches were made until 15th June. On 10th May they were reported plen-

tiful at Mill Stream (Barrington). Nothing afterwards reported.

Codfish.—During the first nineteen days of May the weather was too rough for this fishery and more attention was given the lobster fishery. On the 20th the first catch was reported, the average catch being 1 quintal per man. From the 23rd to 29th, fair catches were reported, although the weather was unfavourable, and from 30th until 3rd June, very good catches were made inshore. From latter date until the 28th the average catch was 1 quintal per man; but after this the catches, although fairly regular were light, owing to scarcity of bait, bad weather and prevalence of dog-fish. During the second week of September, codfish were reported plentiful wide offshore. It is estimated that the total catch will be about 20 per cent less than last year's or about 1,600 quintals.

A noticeable fact mentioned by fishermen this year is that the usual school of large cod does not appear to follow the herring; and since the herring struck this

fall there has been very little improvement in the catch of cod.

Haddock were not reported this year until 2nd July, from which date the catches were light until 25th September. They were very irregular throughout September, and it is reported that none were taken on trawls as formerly. Total

catch estimated at 300 quintals.

Herring did not appear the past season until 13th August, when the best netter was reported with 30 small fish. From the 18th to 26th inclusive, small catches were made, but on the 31st they were reported schooling in the harbour, but were reported plentiful about 20 miles to the westward, and nets averaged about one barrel. From 25th September to 15th October the catches varied from 45 herring to $1\frac{1}{2}$ barrel, and on latter date large catches were made but more particularly in the adjoining harbour of Cape Negro. It is said that the total catch to 15th October was 1.500 barrels, 500 of which will be reserved for lobster bait.

Lobsters were first reported on 3rd May, and light and regular catches were made until 29th June, although on 3th June many traps were reported broken. On the whole the total quantity taken this year was larger than in 1896 and the prices

were well sustained during the season.

Mackerel appeared to avoid this part of the coast this season, and none of any

account were taken in this county eastward of Cape Sable.

Squid did not appear this season, but were reported to have passed over the ground about the first week of July.

PORT MEDWAY.

Alewives were taken in catches varying from fair to poor from 4th May to 26th, and the total catch is considered a failure.

Codfish were first reported on 7th June, and the average catch throughout the season has been good. About 17th July they were reported to be very changeable, as one day they would be close inshore and the next a long distance off shore.

Haddock although first reported on 13th May, were not regularly taken until 22nd June, from which date very good fishing was reported until the last of the month. During the remainder of the season the catches were identical with cod.

Herring were not reported until 9th September, when very good catches were

made until the 21st. Very few afterwards reported.

Lobsters were reported in light quantities on 3rd May, and although the sea was rough for this fishery the average catch, until operations closed on 29th June, was fair.

Mackerel were reported schooling at Broad Cove on 18th June, but no catches were made until the 24th, when light hauls were made for a few days. Nothing afterwards reported until 4th October, when they were again schooling, but no catches worthy of note were reported.

Salmon were taken in fair quantities on 3rd May, and the average catch until

19th June was fair.

Shad were taken in light but regular catches from 5th May to 14th, inclusive.

PUBNICO.

Codfish were first reported on 2nd June, and the catches until 26th August varied from good to fair although bait was reported very scarce all through this period. From 26th August until 13th September the catches were somewhat poorer; but on latter date fishermen were reported to have all hauled up for the season and the total catch is considered an average one.

Haddock catch considered an average one.

Herring, although taken in light catches during the former part of August at Mud Island, were not reported here until 14th September when they appeared plentiful outside but were scarce inshore. On 24th September the first catch inshore was reported, and until 15th October the catches varied from 3 to 4 barrels per boat. During the second week of October they were reported plentiful at John's Island.

Lobsters were taken in fair quantities from 10th May until 10th June, but afterwards were scarce until the season closed. Total catch reported slightly below

last year's

Mackerel were taken in small quantities by nets on 19th May, but on the 21st the trap at the point had 400, and during the following few days some fairly good catches were made. Light catches were afterwards made only to the 22nd July after which none were reported. Total catch considered very poor.

SALMON RIVER.

It is reported that owing to the blustry weather the season did not open as easly as usual; consequently the catches are smaller than any previous year.

Alewives were only taken in very small quantities, as the refuse of the Dufferin Mines crusher was reported to have been dumped in the river thus polluting the water and causing the fish to forsake their old haunts. Total catch about 5 barrels.

Codfish were first reported on 14th June, and although the fishery is not prosecuted to any extent, owing to the fishermen not having sufficiently large boats to venture far from land, small boats found this fish in fair quantities from 1st July to 15th November. Total catch estimated at 100 quintals.

Haddock appeared about 13th August in very good numbers, and although they remained in fairly large quantities the low prices which prevailed did not encourage

fishermen to catch many.

Herring were first reported on 5th June but the fishery has been very poor;

total eatch not exceeding 30 barrels.

Lobsters were first reported on 4th May in small quantities, but bad weather continued throughout the month which prevented the hauling of traps. On 31st May and 24th June a large number of traps were destroyed by heavy seas which left the fishermen with limited means of prosecuting this branch. It is reported that the total eatch of the 5 factories in this district was about 3,000 cases; while a large number were shipped to Boston during the season.

Mackerel were first taken on 19th August, but the catch has been very light

and will not exceed 3 barrels.

Squid were scarce in former part of season when looked for, but are now (16th Nov.) fairly plentiful, when there is no demand at this late season.

SAND POINT.

Alewives were taken in light quantities from 4th to 6th May, but although on the 7th they became plentiful, the catches continued light owing to the heavy seas running. From 10th June to 5th July the catches varied from fair to good and the

season's catch is a good average.

Codfishing commenced about 4th May, but the bad weather prevented good fish. ing and only light hauls were made, although they were in fair supply off shore. About May 25th this branch became good off shore and the average eatch per day was about 14 quintal per man. This continued until about 21st June as herring buit was in good supply on the grounds. After latter date bait became scarce, and dog-fish plentiful, and notwithstanding that the fish were plentiful on the grounds, the catches were light for the remainder of the season. On 31st July, Captain Thorbourn of schooner "Eva L. H." reported dog-fish plentiful all over Quero Banksomething which had not been hitherto known on that ground. On 16th October a good school of cod was reported on shore, but as herring were then plentiful more attention was given that fishery. In comparison with last season's catch there will be a large decrease, which is almost wholly attributable to the scarcity of bait. The Bank Quero vessels with hand lines and salt clam bait landed each two full fares. The price of these fish being low, the net proceeds to the owners of vessels and crew is far below that of the past several years.

Haddock were not reported until 1st June from which date the catches were light until July 5th. From latter date until the 27th average catch was good, but during the remainder of the season the catches with very few exceptions, were light. On 6th August they appeared fairly plentiful inshore, but as they did not fish well with hand lines, the bait proved too scarce to trawl them, and on the 14th the catch was estimated at \frac{1}{3} less than the previous year's. About 27th September United States bankers reported cod and haddock to have been in good supply all season on

eastern part of La Have Bank.

Hake have been very scarce on shore soundings this year.

Herring were reported plentiful 2 miles off shore on 18th May and varied from good to fair until the end of June. Nothing was reported from this time until 26th August, when they again appeared plentiful off shore and were of large size. During this period but very few were taken inshore. On 25th September one boat was reported with 100 herring, and during the following two weeks the catches of best boats were from 6 to 8 barrels. About 14th October some boats were reported with 18 barrels, and during the next few days they became very plentiful-some boats taking 20 barrels a morning and making 3 trips. Fishermen were compelled to sink their nets to catch the herring, otherwise more mackerel would have been taken. It is estimated that since this fish struck about 3,000 barrels have been caught to 15th October and were then in good quantities. The first were of large size but not fat.

Lobster fishery commenced 1st February, but with the exception of some fair catches having been made at headlands from 10th to 21st May, the catches were poor the whole season. On 13th May it was reported that this fish had so fallen off that the Portland Packing Co. was obliged to close. It is felt that unless fishermen

are restricted from catching any lobster under 101 inches that within a few years this valuable branch will be a thing of the past. This year's catch estimated about half of that of 1896.

Mackerel were not reported the past season until 15th August from which date light catches were made until 15th September and only those who had large mesh nets obtained any. During the first 10 days of October some fair catches of very large fish were made, some of which were locally consumed and the balance salted for murket; none having been used for bait. It is estimated that the total catch was about 20 barrels.

Salmon, although not reported, are said to have been fairly plentiful the past season.

Squid appeared in small quantities on 21st June and the catches continued light until 6th July when they became more plentiful inshore but were very good at Shelburne Lighthouse, although of small size. Fair supplies were taken until the 17th. when dog-fish drove them away, and for the remainder of the season they were very scarce.

SPRY BAY.

Codfish were first reported in fair quantities on 8th June, but the catches were light until about 30th August, when for about 10 days the average catch was good. During the remainder of the season the fishery was poor. Total catch about 500 quintals.

Haddock were only reported in September, throughout which month the average was only poor. Total season's catch about 100 quintals.

Herring struck first about 3rd May, but very few were taken until September, when light catches were regularly made until 9th October. The total catch is estimated at 300 barrels, but it is reported that the greater portion of this quantity was taken off Pope's Harbour.

Lobsters appear to have been a poor catch, as only light catches were reported

from 17th May to 23rd June.

Mackerel were only reported in October, when light catches were made from the 5th to 9th inclusive. It is said that they passed in deep water as they escaped the nets entirely. No traps or seines used here. Total catch estimated about 20 barrels.

WHITEHEAD.

Alewives were only taken in light quantities from 27th May to end of month, and the total season's catch is estimated at 4,500 pounds.

Codfish were first reported on 15th May, when one boat obtained 1 quintal. With the exception of an occasional fair catch, they continued scarce the whole

season. Total catch 150,000 pounds.

Haddock appeared slightly earlier the past season, and from 24th May until 10th June, the average catch was fair; 30 quintals having been taken in a trap on the 9th. During the remainder of June the catches were light. Nothing was reported throughout July, but light supplies were taken somewhat irregularly during August and September. Total catch estimated at 180,000 pounds.

Hake were very scarce during the season and but few catches were reported. Herring were taken in light quantities from May 15th until 18th August, when catches became better, and fair average catches were made until 7th September, after which they were scarce until the season closed. It is estimated that the total eatch will be about 350.000 pounds.

Lobsters were taken as soon as the ice left on May 16th, but the catches continued poor during the whole season. Estimated catch about 3,000 cases, which is

a shortage of 1,400 cases in comparison with 1896.

Mackerel appeared on 20th May, but few were taken until 1st June, when two barrels were taken in a trap: and for the next two weeks the catches remained

poor. On the 17th, 1,000 fish were taken in a trap and boats averaged 40 fish. About the 23rd, 20 barrels were taken by trap, and although netting was dull, boats averaged 1 barrel. None were afterwards reported. Total catch about 20,000 pounds.

Salmon although not reported, is said to have aggregated 3,000 pounds.

Squid as far as reported, were only taken in light supplies during the first week of August.

YARMOUTH.

Alewives were first reported on 4th May, and the catches until 16th June varied

from good to fair.

Codfish, when reported first on 4th May, were in fair quantities, and the average catch until the 22nd was fair. About the last of the month large quantities were reported to have been taken, and although reported irregularly during the former part of June, the average was fair. On 25th June, the inshore fishery was very poor, while the off shore was good. About 20th July, it was reported that scarcely sufficient cod and haddock were taken the past fortnight for local use; while throughout August the catches were very light owing to prevalence of dog-fish and scarcity of bait. On 2nd August Brown Bank fishermen reported good fishing, but no bait. From 1st to 13th September, the catches of cod and haddock were very fair, but for the remainder of the season were light.

Haddock were almost identical with cod, except that the catches throughout

May were light.

Halibut were on an average good from 4th to 28th May, but during the re-

mainder of the season were, as far as reported, scarce.

Herring.—Although a small catch was reported on 3rd July, nothing of consequence was taken until 3rd August, when nets at Yarmouth Bar took 9 barrels small herring. From latter date until the 31st, light catches were made each day, when a good school was reported and good supplies of bait were obtained by nets and floating traps. During the remainder of the season very few were taken.

Lobsters were first reported in good quantities on 4th May, and although no large catches were made, the average catch was very fair. During the past season the following quantities of live and canned lobsters have been shipped to the United

States from this port:-

	No of crates of live lobsters.	Value.
January	$2,678 \\ 2,096$	\$22,917 28,191
March	2,999 $4,052$ $7,832$	43,293 41,038 66,932
June	3,281	34,284
Total	22,938	\$236,655

After careful inquiry, this quantity has been subdivided into the following number of crates and credited to counties as follows:—

Shelburne	County	Crates. 11,438 9,000 2,500
	Total	22,938

It is reported that in addition to these quantities, United States and local vessels smacked additional lots from the counties of Shelburne and Digby.

The following are the shipments of canned of 1897 pack:—

Factory Name. Mud Island Lobster Company Pubnico " Cape Sable Packing Company Cape Fourchu " Harry's Island "	 950 2,350 1,600 1,200 1,100	Value. \$ 7,600 18,800 12,890 9,600 8,800
Total	 7,200	\$57,600

The above factories are controlled or owned in Yarmouth, and the quantities

and values are as correct as is possible to get them.

Mackerel were first taken on 10th May, when the County line trap was reported to have taken 45 large fish. During the remainder of the month, the various traps in this section varied from one dozen to 150 barrels. On 19th May the first mackerel were taken by nets; but few were afterwards taken, as the easterly winds towards the last of the month drove the fish off shore. After this but few were taken, and on 3rd July the traps were reported to have been taken up. On 20th July and 31st August they were reported schooling here and at the mouth of Tusket River respectively, but no catches were reported.

Sulmon and Shad catch was a fair average during the month of May, but for the

remainder of the season was light.

CAPE BRETON.

WEST ARICHAT.

Alewives .- This fishery is fast becoming a thing of the past. This season's catch

was the poorest ever experienced on these shores.

Codfish appeared about 15th May, but the average catch during this month was only light. Small catches were made pretty regularly during June and July; but the test dishing was made during the latter part of August. Little or no fishing was done in September, partly owing to the scarcity of bait, but chiefly to the rough weather which prevailed during this month, and sometimes prevented boats from going out for three or four days in succession. The fish however, were always reported scarce. This season's catch of cod is a light one, and may be estimated at about one quarter less than last year. The fish were of a fine quality all through the season, and as the weather was favourable for drying them they have been cured very hard.

Hadnock struck in fairly plentiful about 24th May and fair catches were pretty regularly made during the first week in June. In July light catches were made daily: but after this month they remained scarce until the close of the season. The

total catch, though a light one, compares favourably with late years.

Herring.—Small catches of herring were made during the latter parts of May and June, but the fish did not remain on the coast any length of time. They again struck in about 20th July, from then until the last of August some good hauls were occasionally made. The fish kept well inshore this season, and did not draw off into deep water until about 15th August, when good hauls were made on Bradley Bank and around the Severn Rock. No herring were taken here in September, but good fishing was reported at Cape August about the 25th and at Red Heal (Straits shore) during the latter part of the month. The catch this season was from 25 to 40 barrels per boat, which is considered fairly good. The fish taken in this bay are usually of a fine quality, although some difficulty is experienced in curing

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those caught about the first of August, as they are apt to turn out soft backed and tainted, unless great care is taken with them. About this season (October) the fish are very fat in the back, which is of a soft nature, and should they be allowed to remain any length of time in a heap or exposed to the sun they quickly become heated. To avoid this it is necessary that they should be cleaned as soon after coming out of the nets as possible, and strong pickle poured over them immediately after salting. However, many of our fishermen maintain that even this mode of curing will not preserve them; but insist that some of the fish are diseased in the water, and consequently no amount of care in curing can save them.

Lobster fishing commenced 19th April, and fair catches were made up to 20th May; but from that date out the fishing was poor. Though the catch was somewhat better this season than last, yet it cannot be called a good one. About the same number of men and boys were employed in this branch as usual. The fish are now

caught further out in the bay and in deeper water.

Mackerel fishery was again a failure; not even a dozen barrels were taken

among all the fishermen.

On the whole the fisheries here were poor this season. There are a few of the most energetic men who have done fairly well; but there are many others who have barely caught enough fish to maintain themselves and families during the summer. It would have been far better for some of them had they sought other employment at even 50c. per day than waste the fine summer months chasing a few fish in the bay. Like many another industry, the fisheries here are overcrowded.

CHETICAMP.

Codfish were not reported until 12th May owing to the easterly winds which prevailed during the former part of the month. From above date until about 4th June the catches were light, but improved somewhat afterwards, and fairly good catches were made at Mainland and Point for about a week. The catches from 10th June to 6th July were light, and are attributed to the salt clam bait which is inferior. From 6th July to 10th August the catches were on an average fair, although they were very good from 27th July to 3rd August, when boats averaged 1,000 pounds of good sized fish. About the 15th this fishery declined, as is usually the case for a couple of months; and with the exception of a few good catches, remained poor until the last of September. During the former part of October the catches were very fair, but would have been much better had good bait been obtainable. It is a noticeable fact that during the past few years nearly all the marketable fish have been found in very deep water—from 12 to 15 miles off shore; and thus it is that the catches have been so light for the boats, although provided with good tackle, are too small to venture so far from land.

Haddock were first reported on 19th July, and the catches throughout the season were, on an average, fairly good. Like codfish they were found more plen-

tiful in deep water from 3 to 15 miles off shore.

Hake appeared 16th July, but with the exception of fair catches during the first

week of August, they were scarce the whole season.

Herring were not reported until 9th July, although four vessels arrived from the Magdalen Islands about 22nd May laden with this fish for bait and home use. The only catches reported were from 9th July to 22nd, which were light.

Lobsters were first taken this year on 12th May, but only varied from fair to

poor throughout the season.

Mackerel reported in small quantities on 5th August, and on the following day were taking hooks freely in Pleasant Bay. The catch during the rest of the month was light, especially from the 8th to 18th, when bad weather prevailed. About the 23rd some good hauls were made in Pleasant Bay; and one Cape Rouge boat had 100 fish. About this time fishermen gave this fishing greater attention as the prices were very large. Throughout September the average catch was fair; although prevalence of dog-fish, heavy currents and unfavourable weather greatly

impeded this fishery. Very few mackerel were taken up to the 15th October, although they were reported schooling in good numbers on the 8th, but would not bite. Large schools were again reported between Margaree Island and Pleasant Bay on 16th October. The light catch is mostly attributable to the inferior quality of bait used, as most men use the thin spring herring, while those who obtained good bait are reported to have done well.

Salmon were first reported in good numbers in Pleasant Bay on 5th July and 6th, but no catches were made here until the 9th, from which date they were very

scarce until the close of the month.

Squid struck in light quantites on 13th July and were on an average fair throughout the season. Some excellent catches were made, however, during the

last week of July.

As Cheticamp includes the fishing stations of Eastern Harbour, Cheticamp Point, Cape Rouge and Pleasant Bay, the following approximate quantities of fish taken at these stations may be of interest and value:—

Eastern Harbour.

Codfish	5,850 qtls.	Mackerel	356 brls.
Herring	1,000 brls.	Lobsters	33.744 lbs.

Cheticamp Point.

Codfish	1,500 qtls.	Mackerel	170 brls.
Herring	100 brls.	Lobsters	16,752 lbs.

Cape Rouge.

Codfish	10 qtls	Lobsters	10,008 lbs.
Mackaral	80 bels		,

Pleasant Bay.

Codfish	30 qtls.	Lobsters	16,800 lbs.
Mackerel			,

Summing up the production for the past season, of the different stations of this district, it would give a total of—

Codfish	
Herring	1,100 brls.
Mackerel	856 "
Lobsters	77,304 lbs.

D'ESCOUSSE.

Codfish were not reported this year until 9th June from which date the catches were poor throughout the season. Total catch by small boats about 100 quintals. Of the 5 vessels which usually fish in North Bay, the average catch this season has been about 900 quintals which is a better average than in 1896.

Hake, although reported in the second week of May, were not regularly taken until 16th June; the catches thereafter having been light and the total catch not

amounting to more than 75 quintals.

Herring fishery commenced 11th May and light catches were pretty regularly made until 24th June when they greatly improved, and during the following 3 weeks the catches varied from good to fair—boats carrying from 2 to 3 barrels daily. During the remainder of the season the catches were, with few exceptions, light. Total catch estimated at 300 barrels.

Lobsters were first reported in good quantities on 7th May, and very fair catches were made each day throughout the month. During the first ten days of June the catches were light, owing to heavy seas. Although lobsters became more plentiful, the bad weather continued, and on the 12th it was reported that hundreds of traps had been driven on shore and broken. On the 21st the heaviest storm experienced in the past 20 years destroyed fully 1,000 traps, and thus practically crippled this fishery. Again on the 30th hundreds of traps were destroyed; still fair catches were made whenever weather permitted. During the remainder of the season the catches were on the whole light. Total catch estimated at about 25,000 fish.

Mackerel were taken in light catches by nets on 25th May, and with few exceptions were scarce the whole season. Catch of shore boats estimated at about 50 barrels, while the 5 vessels aggregated about 125 barrels which were disposed of at

\$14.10 per barrel.

GABARUS.

Colfish were taken on 5th June in light quantities and continued so, with few exceptions, until about 24th August. Throughout September the catches varied from 700 lbs. downwards, but bait was very scarce and weather very blustry. Very good fishing was reported during the early part of October, although bait continued very scarce, and the prospects were more encouraging. It is estimated that the catch to 15th October, was 1,225 quintals.

Haddock were taken in light catches from the 12th to 16th July, inclusive, but

nothing was afterwards reported.

Hake.—Not reported this season.

Herring struck about 7th June but the catches were only light until the last of July, although they were close inshore about 16th July. During the first two weeks of Angust catches varying from 300 to 3,000 fish, of large size, were made daily. On the 16th they were schooling close inshore, and although 40 barrels were taken in one seine they had to be left untouched as salt was very scarce. This fishery was given the entire attention of all fishermen until bad weather set in about 4th September and prevented boats from going out. Season's catch about 1,150 barrels.

Lobsters.—Notwithstanding that heavy ice was close in hore 2,900 fish were taken on the 7th May, and some very good catches were made until the 13th. After this, although fish were in good numbers, and good supplies of bait were obtainable, the ice prevented the setting of cages. With the exception of fair catches each day from 5th to 12th June they were reported scarce for the remainder

of season. Season's catch considered very poor.

Mackerel were first taken on 26th May, and on the following three days the catches aggregated 52½ barrels per day. Beyond a few light, irregular catches made during the first 2 weeks of June, they were not afterwards reported. Total catch estimated at 210 barrels.

HAWKESBURY.

Alewives were reported in good quantities at River Inhabitants from 24th May to 27th inclusive; and from 29th May to about 9th June were taken in fair supplies at Port Malcom.

Cod and Herring fisheries are said to have been almost a complete failure. Very

few herring were taken this year at Port Malcom.

Lobster fishermen did fairly well and realized fair prices for their fish. Had it not been for the fair results of this fishery, fishermen would have been in desperate circumstances.

Mackerel fishing has been almost a complete failure, and none were taken at Port Malcom. Very few of the Magdalen Island fleet from this district caught fish enough to pay for their supplies and outfits.

INGONISH.

Codfish were first reported on 22nd May, but were scarce the whole season, and the catch is said not to be over \(\frac{2}{3} \) of an average one. This shortage, together with low prices obtained, leave those employed in this branch in very straightened circumstances.

Herring first appeared 27th May but this fishery too proved almost a failure.

No summer fish were taken.

Lobsters were first taken on 22nd May but this branch has been overdone. Additional factories and gear caused the grounds to be overfished the past two seasons and therefore neither packer nor fishermen can make it pay. Three severe storms during the season destroyed so many traps and cages that this branch is reported away below an average catch.

Mackerel were not reported this year until 2nd June and the catches throughout

the season were light and irregular.

Salmon were first reported on 9th June but although some very good catches were made in adjacent localities, the catches here were light and irregular. On the

whole the catch has been an average one.

Squid appeared plentifully on 9th June and some excellent supplies were taken for a few days. After this they were only taken in small quantities until 27th August when they became more plentiful and good supplies were obtained each day until the season closed.

L'ARDOISE.

Codfish were first reported on 9th June and boats which had good gear did fairly well in deep water. The general catch, however, was light and the season's

total catch very poor.

Haddock were reported, as usual, about 29th May but the catches have been very light during the season. In former years this fishery, was very remunerative as large catches were always obtained; but now boats scarcely obtain over 5 quintals

Herring were first reported on 11th June but scarcely sufficient taken for home

consumption.

Lobsters were reported scarce on 1st May and remained so, although taken regularly, until 14th June when fair catches were made each day for a week. After this they were scarce until the extension granted had expired. Only three factories have been in operation the past season and the catch is said to about equal that of 1896.

Mackerel appeared earlier than usual last spring, the first catch having been made on 22nd May. Those who had nets set did well; but the season was short,

none have been reported after June 18th.

For the past few years the inshore fisheries have been so poor that had not Scattarie and Lingan grounds supplemented the home catch, the result would have been very unsatisfactory. Fishermen of this vicinity are now beginning to realize that larger boats are necessary for the outside grounds, and as a result 3 or 4 small vessels are now on the stocks, and will be completed in time for next season's work.

LOUISBOURG.

Codfish.—This branch of fishing has been a complete failure; in the first part of season fish were scarce. During August and September good fishing was reported but a scarcity of bait prevented many being taken.

Herring.—A fairly good catch was made during latter part of June and the month of July; the fish being of large size and good quality.

Lobsters were first taken 6th May and continued fair until the 22nd, when a storm destroyed nearly all the pots, causing a loss of time in repairing and replacing. The extension of time granted was quite a boon to fishermen, as during that time good weather prevailed and good catches were made.

Mackerel were first taken 28th May and continued until the June 6th, when they suddenly disappeared. A few were hooked during August and September but not more than half an average catch during the season.

Salmon were first taken on 21st May and the catches have been light the

whole season.

Squid were not reported until 1st October, from which date fair catches were made until the season closed.

MABOU.

Codfish.—The catch of all kinds of line fish is below that of 1896. In the early part of the season and up to August, very few of these fish were taken in this division. During the months of August and September, however, they were very plentiful, but owing to the searcity of bait the catch was not as large as might be expected. Dog-fish were very numerous in September, and not only prevented other fish from taking the hook but also destroyed bait nets.

Hake and Haddock were unusually scarce all through the season; consequently the catch is below the average. Since about the 25th September boats and fishermen have been engaged on fine days ballasting the government pier at the entrance to this harbour; consequently no attention has been paid to the fishing industry.

Herring.—The spring herring fishery was fairly good, but the mid-summer and

fall fishery show poor results.

Lobsters.—The catch of lobsters this season was somewhat in excess of that of 1896. Although there were only three canneries in operation in this division this season, compared with four last year, the returns show an increase of 69 cases over

the total pack of 1896.

Mackerel have almost disappeared from these shores of late years. It is hard to account for the movements of these erratic fish. It is supposed, however, by fishermen that they keep out in deep water. The few that were taken this year were used for bait. The catch was even below the average. Very little attention is paid to this branch of the fishing industry of late years, so that fishermen are not disappointed with results this season.

Salmon catch was below the average. The only reason which can be assigned for the scarcity is that a large number of lobster traps were set in the immediate vicinity of the salmon nets and it is generally believed that the offal from the traps

frighten or drive the salmon into deep water.

MARGAREE.

Alewives were almost a total failure.

Codfish and Haddock.—Scarcely any cod or haddock were caught until about 5th July when good catches were made for a few days, but afterwards continued scarce until about 24th August when they again struck on the coast and good catches were made for a few days and then slackened off. Total catch for the season has been poor, less one half of an average.

Herring and Mackerel.—The catch of herring and mackerel for the season has been almost a total failure. A few were taken about 12th July but after that time

scarcely any were taken.

Lobsters were very good during the month of May and up to 10th June; but after that the catches began to lessen gradually until the close of the season. However, the total catch was an average one.

Salmon struck on the coast earlier than usual, but the catch was light until about 22nd June when fair catches for a few days were made. Afterwards only a few were

taken, as the total was not over thirty per cent of an average year's catch.

Fishermen are of the opinion that there would probably have been some good catches of cod and mackerel during the latter part of the season but for the abundance of dog-fish.

MEAT COVE.

Codfish were first reported on 21st May, but as bait was very scarce, the catches were very light and irregular until about the 18th September. When the fish did appear in fairly good quantities, it was reported that no person was buying within 20 miles of this station, and the occasional one who did only offered 80 cents per 100 pounds, hence as there was no means of shipping, the quantity taken was only for home consumption and local use.

Herring appeared about 19th May, but as stormy weather prevailed the following month, the catches were consequently light. Nothing was afterwards reported,

and no reason can be assigned for their non-appearance.

Lobster fishery commenced on 19th May, as bait was not obtainable previous to this date, and for the first few days the catches were light. On the 22nd they became more plentiful, and with the exception of an irregular, light catch during the third week of June, the catches were very fair; and had it not been for any unfavourable weather during the whole season, the catch would have been good.

Season's catch, however, is reported to have been below the average.

Mackerel appeared on 28th May, but the catches were light throughout the season, although they were in good quantities all about this district. Although they would not take the hook in Bay St. Lawrence, owing to the great number of small fish on which they fed in preference to the prepared food of fishermen; the boats at Money Point and Poulet's Cove, on either side of Bay St. Lawrence, did very well. They were reported schooling at this station on 21st and 30th July and 25th September.

PETIT-DE-GRAT.

Alewives were scarce the past season and the total catch is estimated at 6 barrels. Codfish were first reported on 13th May, and the catches throughout the season varied from fair to poor. During the first of the season strong tides interfered with the fishery, and in the latter part dog-fish were destructive. Season's catch about 500 quintals short of 1896.

Haddock fishery commenced on 10th May, and light catches were made regularly until the last of August. During the first 11 days of September the catches were fair, but nothing was afterwards reported. In comparison with 1896 there is

an estimated decrease of about 300 quintals.

Hake.—This fishery has not been prosecuted the past season owing to the

prevalence of dog-fish.

Herring made their first appearance on 12th May, but with the exception of a light eatch on that date, they were not afterwards taken until 1st June, from which date light but regular eatches were made until 26th July. From latter date until 23rd September, the eatches were fair; but for the remainder of season were poor. In comparison with 1896 there has been an increase of about 600 barrels, most of which were caught in deep water—from 35 to 40 fathoms.

Lobsters were reported in fair quantities on April 12th, and the catches until the last of May varied from fair to poor. During the remainder of the season they were scarce; and as a great number of traps were destroyed by frequent gales, some fishermen gave up this branch and turned their attention to the cod fishery. It is estimated that 2,000 cases have been put up in addition to 500 crates which were

exported alive to the United States.

Mackerel were first taken on 21st May,—1 boat having taken 40 fish—and during that week the average per boat was about 200. During the remainder of the season or until 8th August, the catches were light, and it is estimated that the total catch will not exceed 80 barrels. It is reported that about 120 boats fitted out for the fall fishery, but the aggregate catch will not exceed ½ barrel.

Salmon were first reported on 1st June, and the catches until 17th July, when nets were reported to have been taken up, were fair. The quantity taken was sold

tresh and realized \$400, which is about 25 per cent in advance of 1896.

Squid struck about 13th July and with the exception of some fair catches during the latter part of that month and first week of October, they were scarce and irregular.

PORT HOOD.

Codfish were taken in small quantities each day from 22nd May until 2nd June, after which the fishery was fairly good until the 22nd. From latter date until 9th August the catches were again light, but during the remainder of the season, when bait was obtainable and dog-fish not too destructive, the catches were fairly good.

Haddock and Hake were reported about 26th June and continued in fair quantities until about 20th September when, owing to the destructive dog-fish, these

branches had to be abandoned.

Herring struck in on 5th May but only light catches were made here although some good hauls are reported to have been made at Little Judique about the 11th. The summer run was a complete failure, and the fall catch is said to be only a few barrels, but are of good quality.

Lobsters were first taken on 5th May and fair catches were regularly reported each day during the month. From 1st June, until the close of the season the catch

was poor.

Mackerel appeared 29th June, from which date the catches were light, and at times irregular, until the last of August. Those taken in August were of large size; but nothing afterwards reported.

Squid were taken in catches varying from good to poor from 17th July until

14th August.

ST. ANN'S.

Codfish were taken in light but regular catches each day from 27th May to 31st July. On 28th May fair fishing was reported on the banks. Catch considered about 50 per cent short of last season.

Hake appeared in good quantities on 17th August, but afterwards were scarce

until the season clo-ed.

Herring.—As the bay was full of ice until about 11th May no catches were reported until the 12th, when this fish was found in fair quantities. From latter date until 2nd June the catch was good; but after this they began to slacken off and on the 6th the spring fishing was reported over. In the first week of July the usual July school appeared but no catches worthy of note were made.

Lobsters do not appear to have been taken here this season as none were

reported

Mackerel were first reported on 29th July and catches varying from 3 to 7 barrels were taken in traps, while light hauls were made by nets. The average catch from this date until 8th August was fair, after which they were scarce until about the 23rd, when the traps were taken on shore.

Salmon were taken each day in light but regular catches from 12th June until

July 10th.

Squid appeared July 6th and good supplies were taken each day until about the 17th after which but few were taken until August 23rd although they were reported plentiful on 7th August but would not jig well after July, which is recognized as the squid month.

On the whole the catches of all kinds of fish for this season were below the

average of former years.

ST. PETER'S.

Codfish and Haddock.—Inshore fishing in these branches turned out poorly. The catch made by vessels from this place and immediate vicinity, on Eastern Banks and North Bay, will fall considerably short of former years. The low price for fish and the small quantities caught of all kinds augurs hard times for the most of the coast fishermen.

Herring were first netted about 4th June. Light catches were made for a fortnight, but these were so small that the fishermen could not even supply home consumption. On 19th August a good run struck in, some boats taking from 7 to 30 barrels. But for this the season for herring would have been a total failure. However, in Bras d'Or Lake, spring herring were taken in abandance, also cod in fair quantities.

Lobsters.—This branch opened about 25th April, and light catches were made daily until about 8th May. From this until the end of the season fair catches were taken; and were it not for the very stormy weather destroying the traps and the prevalence of easterly winds, the fishermen would likely have done very well. The catch though is as good as that of 1896. Seven hundred and eighteen cases and

thirteen thousand live lobsters were shipped.

Mackerel made their first appearance 22nd May, and light catches were made inshore for a few days. Of those setting in deep water, a few took from 10 to 15 barrels. The fish taken were very large and fat. The rest of the season proved a great failure in this branch. This the fishermen attributed to the easterly winds.

PRINCE EDWARD ISLAND.

ALBERTON.

Codfish were first reported on 8th June, and although the catches were light it is said that they were plentiful on the grounds, as herring and other bait fishes were also there in good supply. As previously reported, the boats here are too small to venture out to any great distance; hence very little attention is given this branch. As an example of what fishermen of this place might do, it is only necessary to say that during August, September and October, boats from Caraquet and Shippegan, N.B., find these shores the best grounds for cod; and occasionally during bad weather there will be as many as 120 of these vessels in port at once.

Hake were rather scarce from 23rd July to the last of the month, but throughout

August and until 6th September the catches were fairly good.

Herring struck in on 3rd May, and although reported plentiful at Campbellton during the following week, the catches here varied from fair to good. About the middle of the month they were in good numbers at North Cape and Frog Pond. None were reported in June or July but light catches were pretty regularly made

during August. Nothing afterwards reported.

Lobsters were first taken in small numbers on the west shore from Miminegash about 1st May and about a week later on the north side. They were plentiful from 10th to 28th May at North Cape and Tignish, and fair at Black Marsh, on the western side of North Cape. At Tignish, for a week in the middle of May fishermen frequently loaded their boats with good average sized fish. One fisherman, having been more avaricious than his fellow fishermen, overloaded his boat with the result that she sank en route to the shore. On the west shore, at Nail Pond, Frog Pond, Waterford, and as far as Miminegash, there was only about one week's fishing of any importance. At North Cape excellent fishing was found for about 10 days about the middle of May and for the balance of season was fair. During the same period good catches were made at Tignish, Alberton, Kildare and Conway; but poor the remainder of season. On the whole the catch of lobsters is considered about the same as last year, although fully double the number of traps were in the water. It is reported that packers who are fortunate enough to have their factories situated at points or headlands, usually have fair fishing for a much longer period than those who are less fortunate in having their establishments on long straight coast lines or in coves. The high prices for this fish the past season, assisted in a great measure to make the season a fairly remunerative one.

Mackerel first made their appearance on 17th June, and light catches were made quite regularly until 3 ist August, after which none were reported. The season's catch has been an exceptionally poor one; but it is said that the fishermen are in a

great measure accountable for this as they frighten the fish away by their great numbers of nets and traps. Those taken were by nets, as none were reported to have been taken with hook and line.

BLOOMFIELD OR MIMINEGASH.

Codfish were taken in fair quantities on trawls from 5th June until 11th July, after which none were reported, owing principally to bad weather until October 4th, when light supplies were taken until the season closed.

Hake struck in on 12th July, and fairly good catches were made each day until

23rd August, after which the fishery was poor until the season closed.

Herring.—The spring run struck in in good numbers on 14th May, and good catches were made here and at Campbellton. As the weather was bad the remainder of the month, catches were consequently light; but from 5th to 11th June, inclusive, fair catches were reported each day, while at Cape Wolfe and Campbellton the fishery was good. No second school is reported to have struck during the season.

Lobsters appeared with the herring on 14th May, and catches varying from good to fair were made for about 10 days. After this they became scarce and continued so until the season closed. In the second week of June it was reported that this fishery had been very good at North Cape; but on the whole the catch has been

below the average.

Mackerel of very large size appeared 10th June, but the catches were light until 5th July, when fair hauls were made regularly for about 10 days. During the remainder of the season catches, when weather permitted, were light; and it is said that no large school was on the coast the whole season. No reports of this fish taken with hooks were received throughout the season.

GEORGETOWN.

Codfish struck in on or about 29th May, and a fair catch was made inshore with hand line and trawl up to the 20th June. The weather becoming unfavourable, the fish moved off and only poor catches were made by inshore boats to 28th July. They were plentiful on the several banks and continued so throughout the season.

Hake have been plentiful off shore and good catches were made during August and the early part of September. Cod and hake fishing is not successfully pro-

secuted by the fishermen in this district.

Herring made their appearance about 12th April, when a few were netted daily. On or about 5th May they struck in more plentifully and a number of bankers were supplied with bait. Schools continued to increase up to the 22nd, remaining in the bays and rivers until 1st June, when they moved offshore and were netted until the 15th. While this body of herring was in this vicinity, a large quantity was secured for lobster bait, and a sufficient supply furnished to bankers. The catch is considered equal to that of last year. During the latter part of October and first of November quantities of small herring frequent those bays and rivers.

Lobster fishing commenced about 13th May, and fair catches were made until the 25th, from which date until 14th June the catch was rather poor, but improved again to the 20th. From latter date until 24th July this fishery was poor, with the exception of the 13th, when a fair catch was made inshore. The advance in price paid for lobsters this year should compensate the fishermen for the falling off in catch.

Mackerel fishing has been a failure this year. A few were occasionally netted from the 1st July, and were disposed of locally. Some schools were reported off Boughton Island on 19th July and a fair catch made between netting and hooking. Every effort and device has been employed by the fishermen to capture this fish with hook and line but to no purpose. They could be raised almost in any part of the Gulf, but after securing a few the body would disperse. Some small catches were made off the East Point in September by American vessels.

Squid bait was difficult to procure with jig in the early part of the season, but

were more plentiful in the month of October.

MALPEQUE.

Codfish were first reported on 29th May, and the catches throughout the season, when weather permitted, were very fair.

Haddock were taken in fairly good quantities each day from 25th July until

2nd August.

Herring fishery commenced on 5th May, and until the 21st the catches were on an average fairly good, fishermen getting about all they required for bait and home

consumption. None reported later.

Lobsters were on an average fair, although irregular, from 17th May until the season closed on 24th July. It is estimated that the pack this season is short of 1896; but as expenses were lighter and better prices obtained, the packers did about as well as in the previous year.

Mackerel made their appearance on 12th June, and light catches were made throughout the season. About 13th August they commenced taking the hook, but the catches did not increase any and the total quantity taken is considered poor.

NEW BRUNSWICK.

BEAVER HARBOUR.

Codfish and Haddock struck in about the same time, and from the 18th May until 15th October the catches were light but regular. During the latter part of June and former part of July the haddock catch was slightly in excess of cod. They were

also better during the first ten days of September.

Hake were reported in fair quantities on off shore grounds on 4th June, but the catches were light until the 6th, when they became good and remained so until about 2nd August. About 25th June they were plentiful on off shore grounds, and about 12th July were in good numbers at Wolf Island. On 22nd July, boats varied from 1,500 to 2,000 lbs. hake to a run when bait was obtainable. During the remainder of the season, notwithstanding that some very good catches were made, the average was good.

Herring were scarce throughout the early part of the season and brought fairly good prices; but it was not until about the usual time—10th August—that large herring were first reported at Wolf Islands. During the remainder of the season

the catches were light, although small herring were reported plentiful.

Lobsters were first reported on 8th May, but the catch until 25th June, when the fishery closed, was light. In the early part of May the demand was good and

prices ruled at 10c. each.

Mackerel were only taken in light catches from 9th August to 27th; the first having been taken in weirs here and at Bliss Harbour.

CARAQUET.

Codfish were first reported the past season on 31st May, and the catches were on the whole good throughout the season; although the total catch is considered slightly below that of last year. Bankers during the season obtained good supplies

of herring and clam bait which were plentiful.

Herring were taken in light catches as soon as the ice left the harbour about 14th May. On the day following, however, they struck in plentifully, but as bad weather set in about the 26th, for a few days the catches thereafter were light and irregular until the end of June. None were reported throughout July, but during August the catches were light, although boats on the 22nd were reported to vary from 20 to 25 barrels. Total catch considered the smallest for some years past.

Lobsters were first reported on 20th, May but were very scarce the whole season; and the catch is considered even smaller than last year, which was the smallest for

some years past.

Mackerel appeared this season on 3rd June, but the catches were very light the whole season.

Salmon. From 27th May, until July 10th the catches were on an average fairly good.

Squid were taken in good supplies from 24th to 30th August, inclusive.

ESCUMINAC.

Codfish were first reported on 26th June, and the catches until the last of Septem-

ber were fair and regular.

Herring were found in good quantities as soon as the coast was clear of ice on May 12th but about the 15th the catches became smaller and they were not reported after the 20th.

Lobsters were also taken first on the 12th in small quantities; and with the exception of a few catches varying from good to fair up to the 20th, they were scarce until fishing closed about 6th July.

Mackerel were taken in light and regular quantities from 8th July to 27th

September.

Salmon were first reported on 25th May from which date light catches were regularly made until the 22nd July.

Shad were taken in light but regular catches from the 25th May to the 25th

June.

GRAND MANAN.

Codfish were not reported this year until 28th May from which date catches varrying from good to fair were made until 25th June. About the middle of June fair fishing was also found on gravelly ground. During the last week of June the catches were light until line fishing was interrupted altogether by dog-fish about 1st July. Throughout the latter part of July the catches varied from very good to fair, but very few catches were made later, except on the outside grounds and various coves, where the fishery ranged from good to poor until the last of September. It is estimated that the total quantity cured will not exceed 1,000 cwt.

Haddock appeared also on 28th May and the catches until 30th June were very

fair.

Hake were first reported on 2nd June and the catches throughout the greater part of the month were good. Late in June they became somewhat scarcer and continued so until about the 20th July, after which the catches varied from very good to fair on the different grounds and various fishing places in this district. This fishery shows an increase of about 1,000 ewt. over that of 1896.

Halibut appeared 17th June and the catch is said to have been very light.

With the exception of the hake catch it is said that the past season's operations have been the poorest which the fishermen have experienced for years. This decrease, particularly in the line fishery, is in part due to bad weather during the spring and early part of the summer, but principally to the scarcity of herring in the bay. No particular reason can be assigned for this scarcity unless it may be the insufficient supply of small feed upon which the herring subsist which in former years caused a similar bait exhaustion.

Herring were first reported on 2nd June but the fish were of small size and but few were taken. About 16th July the summer school struck, and for the first few days the catches were light, but afterwards they became more plentiful, and until 23rd September the catches varied from good to poor at all sections. The smoked herring industry which is the most important branch on the island shows a falling off, in comparison with last year, of fully 50 per cent; there having been only about 1,000,000 boxes cured. Fresh herring show a corresponding decrease. The total catch of pickled herring is estimated at 2,000 barrels.

Lobsters.—From 28th May until the season closed the catches were light and irregular, and it is said that the decrease will be about 60 per cent, which is claimed

to be due to over fishing of former years.

SHIPPEGAN.

Codfish were first taken on 29th May in small quantities as the weather previous to this had been very rough. Throughout June, July, August and former part of September the inshore fishery was poor but the bank fishery was good; and it is reported that some weeks the largest catches on record were landed. Although the total catch is considered large, the prices rated low as the markets were said to have been overstocked with old fish. The fish taken are dried here and shipped in English barrels to Mediterranean, Spanish and Portuguese ports; while some are shipped in tubs to the West Indies. It is said that several vessels loaded the past season for European ports.

Halibut and Herring .- As far as reported the catches were on an average

fairly good.

Lobsters were on an average fairly plentiful the whole season; but owing to continuous rough weather, tishermen were prevented from hauling their cages, and many factories closed early in June, owing to the limited quantities brought in. The small pack realized higher prices, which to many packers will make up for the deficiency in quantity; but the majority of packers will scarcely pay expenses.

Mackerel were first reported on 17th June, but the catch has been very small. The small boats did very poorly as the fish did not strike inshore; but a few Nova Scotia schooners are reported to have made small catches which were salted and shipped to United States ports. Very few have been put in freezers here this season.

Salmon were taken in catches varying from good to fair during the second

week of June.

QUEBEC.

GASPÉ.

Codfish were first reported on 24th June, and fair catches were made when weather permitted.

Herring, although not reported, are said to have been about an average catch.

Mackerel again failed to reach these shores the past season.

Salmon were first taken on 7th June, but the catches were light throughout the season.

GRAND RIVER.

Capelin were reported striking in on 15th June, but very few were taken; and

it is reported that they have almost disappeared from these shores.

Codfish were first taken on 31st May, but the inshore catch has been small. The bank fishery was good during the whole season and fish were of large size, but dogfish appeared about the middle of the season and caused much annoyance among the They had never been troubled heretofore by this kind of fish.

Herring appeared plentifully on 5th May and excellent catches were made each day for about a week. During the greater part of the season they were taken in catches varying from good to fair, but about 24th September they became scarce and

small, and remained so until the season closed.

Lobsters, although appearing in fair quantities on 5th May, have been a poor eatch and a light run, as factories were reported to have closed on 15th June.

Mackerel have been very scarce the whole season; the only catch worthy of note having been made on 23rd July.

Salmon were first reported on 5th June, but this fishery has also been poor and

none were captured after 9th July.

Smelt fishery commenced about 7th October, and were reported plentiful, but as fishermen can only ship twice per week, their time is not wholly devoted to this

Squid were first taken on 16th July, but the catches have been light and irregular.

LONG POINT.

Codfish were taken in small quantities each day from 9th to 19th June inclusive, but bad weather setting in nothing was afterwards reported until 1st July, when the fishery was found fairly good. About the 7th good catches were made and whenever weather permitted, fishermen did well. During the first week of August very good catches were reported and although the weather was much broken the catch until the end of September was good.

Herring.—The only catch reported was on 16th August, when a good quantity

was taken.

Launce were first reported on 8th June, but the catches were light until the 19th. After this they were not reported until 16th July, when very good catches were made each day until 2nd August, from which date until the last of September the average catch was fair.

Salmon were taken first on 8th June, and the catch each day were fair until

the 19th.

MOISIE.

Codfish were first reported on 7th June and catches varying from fair to poor were made until about 27th, after which the catches were very fair until the latter part of September.

Launce struck in good quantities on 3rd July, and some excellent catches were

made until about 25th September.

Salmon appeared in small quantities on 2nd June, but the average catch throughout the month was fair.

Squid were fairly plentiful from 6th to 19th August inclusive.

On the whole the season's catch is considered about $\frac{1}{3}$ in advance of that of 1896.

NEWPORT POINT.

Capelin were first reported on 8th June, and the average catch during the

remainder of the month was good.

Codfish appeared in light quantities on 29th May, inshore, while during the first week of June boats from banks varied from 17 to 30 drafts. During the remainder of the season the few inshore boats did poorly, owing to scarcity of bait and strong winds; while those on the banks obtained very fair catches, and the total catch is estimated at 9,200 quintals.

Herring appeared plentiful on 4th May, and excellent fishing lasted unt 1 the 21st, when there was a slight falling off. Throughout June and July and up to 14th August the average catch was fair, although irregular, and the total season's catch is estimated at 4,000 barrels, which are reported to have been taken for bait.

Lobsters were taken in very fair quantities from 4th to 14th May inclusive, but afterwards became scarce and remained so until 2nd June, after which none were

reported. Total catch estimated at 500 cases, or equal to last year's pack.

Squid were reported in light quantities on the banks on 26th July, but were not afterwards reported until 18th August, from which date the average catch was good until the last of the season.

PASPEBIAC.

Capelin.—Very good catches were reported from 7th to 12th June, inclusive.

Nothing afterwards.

Codfish were first reported on 7th June, but with very few exceptions the catches were light until 3rd August. From latter date until 15th October this fish was in good supply, but owing to scarcity of bait and high winds the catches were not very regular.

Herring were reported in good quantities throughout May, but were scarce in June. Very few were taken in July, August or September, but from 6th to 9th

October inclusive, the catches were very good.

Squid appeared in fair quantities on 3rd July, but on the 5th became scarce and remained so during the month. A few good catches were made between 18th August and 25th.

PERCÉ.

Codfish were not taken in May owing to high winds, but on 1st June, a light catch was reported after which the fishery became good and the catches throughout

the season were satisfactory.

Herring struck in fair quantities on 10th May, and the average catch until 15th June was very good. During the latter part of June they were scarce; but from 16th to 27th July, varied from fair to poor. A few very good catches were made in the second week of August and first week of September, but nothing afterwards owing to high winds.

Lobsters were taken in fair catches each day from 10th to 21st May, but through-

out June were scarce.

POINT ST. PETER.

Codfish were first reported on 25th May, and the average catch throughout the season was fair. On 12th June it was reported that Alexander & Co., had 300 drafts more up to that date than in the corresponding time in 1896. About 18th July, they were reported plentiful on off shore grounds, but the high winds which prevailed during the greater part of the season prevented good fishing. The average per boat for season is estimated at 125 drafts.

Herring appeared in fair quantities on 4th May, and the average catch until about 11th June was good. During the remainder of the season the catches varied from fair to poor. It is said that the greater portion taken was used for bait, as only

a very few barrels have been salted.

Lobsters were taken in catches varying from good to fair, from 4th to 31st May,

but during the remainder of the season were scarce.

Squid.—The average catches of squid from 29th July to 15th October, were fair.

SEVEN ISLANDS.

Codfish were first reported on 7th June, but the catches were light until the last of August. Throughout September, when weather permitted, the catches were

fairly good; but in October the weather was too stormy for fishing.

Herring were reported to have struck in off this station and Point de Monts, on 17th May, but no catches were made until the 31st, which were light. About 30th June, they again appeared in small quantities but nothing of consequence was afterwards reported.

Launce appeared in fair quantities on 31st May, but were not taken with any regularity until about 25th June, from which date the catches were on an average

very good until the latter part of September.

Salmon were first taken in fair quantities on 31st May, but the season's catch is estimated about 50 per cent below that of 1896.

Squid were taken in fair quantities from 9th to 19th August, inclusive.

STE. MARGUERITE.

Codfish were not taken regularly, but whenever weather permitted, the catches

were very fair from 17th July, until 27th September.

Launce appeared in good quantities on 17th July and good catches were made until bad weather set in about 11th August, and no catches were then made. On 1st September, they were reported plentiful and continued so until the 25th, after which date none were reported.

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ANTICOSTI.

ENGLISH BAY.

Capelin struck in at all points on the island after the stormy period about 16th June in great abundance, and were reported coming ashore in quantities at all stations until the last of the month.

Codfish—No fishing at this station and western end of island the past season, as the inhabitants were generally occupied on their lands or working for Mr. Menier.

Herring struck in fair quantities on 25th May, but the catches were generally

poor as the weather was rough.

Squid were very good throughout September and former part of October, and were taken in unusually large quantities.

FOX BAY.

Capelin.—See English Bay.

Codfish were only taken in very light catches until herring struck early in August. After that fishing was generally good, and was reported fair at Heath Point until the end of September. The total catch of the three boats is estimated at

103 quintals which was mostly taken at Heath Point.

Herring struck in plentifully on 25th May, and continued good until about 7th June. They again struck in 24th June and continued abundant for a few days. After this they were scarce until about 7th August, when they struck in abundance at Heath Point and varied from good to fair at all sections of eastern part of island until 27th September.

SOUTH-WEST POINT.

Capelin.—See English Bay.

Codfish were not sought after during the season; but it is reported that in the

early part of October they appeared in good quantities.

Squid are reported to have come ashore in unusually large quantities throughout September and former part of October.

STRAWBERRY COVE.

Capelin.—See English Bay.

Codfish were first reported on 25th May, and were taken in fair quantities until about the last of June; after which very little has been taken. Total catch of 20 boats estimated between 500 and 600 quintals.

Squid.—See English Bay.

MAGDALEN ISLANDS.

Codfish were taken in light catches on 26th May, and for about a month the quantity taken was small, as only a few boats were engaged in this branch, notwith-standing the fact that they were in fair quantities on the grounds. From 26th June until 12th July, the catch was fair, but boats were prevented from going out regularly by bad weather. From latter date until about the middle of September, the catches were light; owing chiefly to the great scarcity of bait.

Mill Herring.—The spring run struck in about 13th May in small quantities; but about the middle of the month they became plentiful in the various bays and large quantities are reported to have been taken for local use and bait. They were not reported afterwards until 9th September, when light catches of large fish were made each day for about a week. It is reported that the spring catch was about equal to that of

1896.

Lobsters, owing to the late spring, were not taken until 8th May, but the prospects were encouraging as herring were reported plentiful. From 25th May until about 11th June the catches varied from fair to good; but as a large number of traps were lost on the northern part of the islands during the first week of June, it crippled the fishermen so that the catch was not general thereafter. From 11th June until the close of the season the catches were light, although reports from Bryon Island indicated good fishing on 22nd June. On 12th July, it was reported that all factories had closed on account of the scarcity of fish. It is felt that different regulations should be enacted respecting the lobster fishery in this district, as it is usually late when traps are set and the inhabitants are wholly dependent on the fisheries.

Mackerel appeared on 31st May, and light catches were made by netters until about 17th June, about which time the spring fishery was reported to have been a failure, as vessels with from 100 to 125 nets had only an average of about 45 barrels. About 23rd July, light catches were reported on the north-eastern part of the islands, but the hauls were not general and did not increase, although in the second week of September they were reported plentiful, but bad weather prevented successful fishing.

On the whole the spring and fall catches have been very light, for whereas three years ago over 1,500 barrels were taken, this year the estimated total will not exceed

200 barrels.

I have the honour to be, sir, your obedient servant,

W. M. HUTCHINS,

Clerk in charge Fisheries Intelligence Bureau.



APPENDIX No. 13.

THE FUR SEALING INDUSTRY OF THE NORTH PACIFIC OCEAN AS AFFECTED BY THE BEHRING SEA AWARD AND CONSEQUENT LEGISLATION.

BY R. N. VENNING.

THE BEHRING SEA QUESTION.

For a series of years past the departmental reports have contained a short résumé of the main features of this question, as they have developed from year to year; the "Twenty-ninth Annual Report of the Department of Marine and Fisheries 1896—Fisheries." (Sessional Paper No. 11a, 1897), bringing it up to the end of 1896, at which point the present article will resume it for the current year, following somewhat the same order.

DEPARTURE OF THE SEALING FLEET.

The spring sealing fleet comprising 43 vessels, began clearing for the season of 1897, early in December, 1896; the first vessel cleared on the 3rd, and by the end of the month eighteen had cleared. In January, 1897, seven other followed; in February, ten, and in March, eight.

This fleet was divided into two sections as follows:-

VESSELS OPERATING ON THE NORTH AMERICAN COAST OF THE PACIFIC OCEAN.

License.	Schooners.	Tons.	Masters.	Cleared.
37 38 39 40 41	Mary Taylor. C. D. Rand Mary Ellen Osprey Ainoko: Allie J. Alger E. B. Marvin Sapphire Triumph Pioneer Anateur Pachwellis Fisher Maid Mountain Chief Penelope Beatrice Cape Beale. Mand S Dora Siewerd Zillah May. Otto. Minnie City of San Diego Arietis Ocean Belle Enterprise Teresa Labrador Fawn Chacheemah South Bend Annie (sloop).	43 51 63 40 76 75 96 109 96 66 68 20 21 23 70 66 13 97 93 66 86 86 86 86 86 86 86 86 86 86 86 86	P. Carlson J. O. Townsend D. McPhee G. McDougall G. Heater R. O. Lavender Chas. J. Harris Wm. Cox C. N. Cox W. E. Baker C. Jipson J. Nyetam C. Chipps Nawassum D. G. Macauley Wm Heater J. E. Quap. R. E. McKeil H. F. Siewerd S. Balcam J. McLeod V. Jacobsen D. Martin P. Martin P. Martin P. Martin R. Cox J. W. Todd G. Meyer M. Fike M. Foley H. Chacheemah C. F. Dillon C. Spring	Dec. 3, 1896 do 9 do do 9 do do 9 do do 14 do do 21 do do 30 do do 30 do do 30 do do 31 do Jan. 20, 1897 do 21 do do 21 do do 21 do do 21 do do 20 do do 30 do do 31 do Jan. 20, 1897 do 21 do do 21 do do 21 do do 21 do do 21 do do 21 do do 21 do do 6 do do 9 do do 9 do do 20 do do 24 do do 24 do do 24 do do 25 do do 26 do do 27 do Mar. 1, do do 18 do do 18 do do 18 do do 18 do do 18 do do 18 do do 18 do do 20 do

VESSELS OPERATING ON THE JAPAN COAST OF THE NORTH PACIFIC OCEAN.

License.	. Schooners.	Tons.	Masters.	C	leared.
6 8 9 11 13 14	Casco Mermaid Umbrina Annie E. Paint. Geneva Carlotta G. Cox. Director Borcalis. Sadie Turpel Agnes McDonald. Vera	63 73 99 32 92 76 87 37 56 107 60	Chas. Le Blanc Jas. W. Anderson. Chas. Campbell Alf. Bissett Wm. O'Leary. Wm. D. Byers F. W. Gilbert Andrew Nelson A. S. Crane M. F. Cutler. Wm. T. Bragg	do do do do do Jan.	8, 1896 10, do 12, do 19, do 21, do 22, do 28, do 29, do 4, 1897 15, do 21, do

In all 11 vessels.

While the whole of these vessels engaged in that branch of the industry known as the spring fishery, all but fourteen of them operated later on in the Behring Sea fishery, which begins only on the 1st August, after the expiry of the close season provided by the Paris Award. Those of the sealers which confine their spring operations to the American side of the Pacific Ocean, return to Victoria to await the summer fishery in Behring Sea, after the seals have disappeared from the coast, or in other words have entered Behring Sea.

Those, however, who have exploited the Asiatic waters, cross over into Behring Sea when the open season begins. These it will be seen form much the smaller

factor in the Behring Sea fleet.

The following table represents a complete list of the fleet which cleared for Behring Sea during 1897, and shows that out of the full fleet of 44 vessels clearing during that year, 30 were destined to Behring Sea.

SEALING VESSELS CLEARED FOR BEHRING SEA, SEASON 1897.

Ņo.	Vessels,	Tons.	No. of License.	Master.	Cle	ared for.
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Mary Taylor Casco Mermaid. Umbrina. Annie E. Paint. Geneva. Ainoko. Carlotta G. Cox. Director Borealis. E. B. Marvin Triumph Pioneer. Sadie Turpel. Vera. Penelope. Beatrice Dora Siewerd Zillah May.* Otto. Minnie. City of San Diego Arictis., Ocean Belle. Enterprise Teresa. Fawn South Bend. Victoria. Favourite.	46 63 73 99 82 92 75 76 87 36 98 66 56 60 70 66 93 66 86 46 46 46 46 86 83 69 69 21 63 80 80 80 80 80 80 80 80 80 80 80 80 80	32 33 34 35 36 37 38 40	F. Cole. C. Le Blanc S. W. Anderson C. Campbell A. Bissett W. O'Leary G. Heater W. D. Byers. F. W. Gilbert. A. Nelson C. I. Harris C. N. Cox W. E. Baker A. S. Crane. W. T. Bragg. D. G. Macauley. W. Heater H. F. Siewerd S. Balcam J. McLeod V. Jacobsen D. Martin P. Martin R. Cox J. W. Todd G. Meyer M. Foley G. F. Dillon R. Balcan R. McLean	Behring Sea do do do do do do do do do do do do do	from Victoria. now in Japan. do do do do from Victoria. now in Japan. do from Victoria. do now Copper Id now in Japan. do from Victoria. do do do do do do do do do do do do do

It will be observed that as previously intimated, of these vessels so cleared direct from Victoria, ten crossed from the Japan coast, and one from vicinity of Russian Islands.

THE SEASON'S CATCH.

The following table prepared by the collector of customs, at Victoria, B.C., comprises a complete detailed return of the season's operations of the Canadian sealing fleet, and a statement of the vessels, tonnage, masters, crews, both whites and Indians, as well as boats and canoes employed in the industry.

BRITISH COLUMBIA

			Cri	ews.	Boats.		British Columbia Coast.	
Vessels. Tons. Master.		Master.	White.	Indians.	Boats,	Canoes.	Males.	Females.
Agnes McDonald	75 75 18 82 86 66 66 69 63 51 76 46 89 80 58 21 93 25 43 67 32 86 67 33 86 67 67 67 67 67 67 67 67 67 67 67 67 67	F. M. Cutler G. Heater R. A. Lavender. C. Jipson A. Bissett P. Martin W. Heater A. Nelson C. Le Blanc J. A. Townsend W. D. Byers L. McGrath F. W. Gilbert H. F. Siewerd C. J. Harris J. W. Todd L. McLean M. Foley C. Chipps W. O'Leary M. Pyke F. Cole D. McPhee R. McKiel V. Jacobsen J. W. Anderson J. Nawassum R. Cox J. Nawassum R. Cox J. MeLeod J. Nyetam D. McCauley W. E. Baker A. L. Crane	27 6 24 26 6 6 4 20 20 20 21 1 26 6 6 23 8 9 8 8 7 6 7 7 6 6 22 7 7 6 6 24 23	26	8 2 7	13 7 14 12 9 15 16 13 13 10 6 11 11 11 14 10 12	59 122 5 130 128 9 89 210	385 354 45 71 55 110 22 23 123 123 123 123 123 123 123 123 1
Sapphire South Bend. Teresa Triumph. Umbrina Vera. Victoria Zillah May Canoes. *41 vessels.	98 99 60	W. Cox. E. F. Dillon. G. Meyer. C. N. Cox. C. Campbell. W. T. Bragg. J. Haan. S. Balcam	9 4 8 7 25 20 9 7	30 9 24 40 18 24 587	1 1 2 3 7 6 6 2 2 2 149	15 5 12 18 10 12 	18 142 125	36

RECAPITULATION.

		1.6.	CALL	CHAIION.			
Charry	White.	Indian.	Total.	Boats and Canoes		Canoes.	Total.
Crews.	495	495 587 1,082 Bo		Boats and Canoes	149	288	437
	Sea	ling Stat	ions.		Males.	Females.	Totals.
Japan Coast Copper Island	Coast				3,677	2,819 3,644 928 9,058	5,082 7,321 1,382 15,607
Indian Canoe (16,449	29,392 1,0 1 8
	Grand	Total		* * * * * * * * * * * * * * * * * * * *			30,410

Sealing Report, 1897.

I ARTIUULA	RS OF CATCH.				[a
Japan Coast.	Vicinity Copper Island.	Behring	Sea.		No.
Males.	Males. Females.	Males.	Females.	Total.	Remarks.
308 181 373 446 154 154 432 430 381 637 426 439 120 269 468 362 430 217 430 217	88 249 40 102 128 135	136 368 217 66 182 558 396 134 299 233 25 195 403 449 404 202 10 88	220 696 577 381 254 207 53 370 492 492 411 3 164 560 861 142 2150	489 1,331 640 20 1,298 1,064 737 626 1,064 302 1,438 4,438 1,052 1,339 1,250 553 553 491 27 804 255 944 290 996 1,123 1,22 959 1,021 24 822 878 899 98 1 848 1,760 1,008 540	\{\begin{array}{ll} \text{Wrecked, 5 miles south of Akishi, } \\ \text{Japan, 21st June, 1897.} \end{array} \] \[\begin{array}{ll} \text{1} \\ \text{2} \\ \text{3} \\ \text{4} \\ \text{2} \\ \text{3} \\ \text{2} \\ \text{2} \\ \text{2} \\ \text{3} \\ \text{4} \\ \text{2} \\ \text{2} \\ \text{3} \\ \text{4} \\ \text{2} \\ \text{3} \\ \text{4} \\ \text{2} \\ \text{3} \\ \text{3} \\ \text{4} \\ \text{2} \\ \text{3} \\ \text{4} \\ \text{30' N, long.} \\ \text{125°55' W., April 23rd, 1897.} \end{array} \]
3,677 3,644	454 928	96 399 6,549	9,058	776 827 1,018 30,410	Indian catch, B. C. coast.

While the catch this season has fallen much below the average, the number of vessels engaged decreased from 64 in the previous year to 44, a figure far smaller

than the average for the past seven years.

This is attributed to many causes, the remedy of some of which may be in the hands of the sealers themselves. The tremendous drop in the price of sealskins, together with previous small profits, and the misfortune of the loss of vessels, unwittingly getting within the prohibited zone, and other minor matters all, however, have had a tendency to deter many of the vessel owners from embarking in the industry this season. While a continuance of like conditions might be expected to continue this deterrent effect, it is nevertheless true that considering the number of vessels actually employed, the catch of this season does not fall much below the average catch per vessel in the previous year; hence the result of the London sales of sealskins just reported, which shows a jump of 20 per cent higher than the last sale, may make the season's venture a lucrative one for those who were engaged in it.

As the information of this large advance in the price of skins comes at a time when the sealers are actually preparing for their voyages, it cannot but exert a great influence on the owners of sealing vessels who, under the low prices prevailing, would not have fitted out this year. Hence in the face of this incentive there is every reason to expect that many of the schooners which, otherwise would have

remained in port, will be found in the sealing fleet of 1898.

It is worthy of note that even in years when the smallest catches have been made, the sealers have reported plenty of seals at sea, that is to say that generally speaking they observed no marked diminution in the number of seals seen as compared with previous years, nor have such reports been confined to them. The captains of patrolling vessels have given similar testimony. That larger catches have not been taken under these conditions has been attributed to stormy weather and to increased wariness of the seals.

The present season is no exception to this rule and the reports still exist.

In considering the question of stormy weather as affecting the catch, it should not be forgotten that in the earlier days, when the sealers could enter Behring Sea in June, and leave when they chose, the comparatively stormy weather of the latter part of August and beginning of September, used to be considered so correspondingly unfit for sealing, that many of them having had almost a full season in the sea, left in August, and very few, if any, remained after the first week of September.

There were, of course, exceptions to this rule, and it was proved that good catches could be and were made well on into September, but when the sealers had made a fair average catch during June, July and August, as the boisterous weather approached and their crews and hunters desired to return home, they generally left on account of so called bad weather. The unpropitiousness of the weather of course increased as the season advanced. Thus we find in the early history of the industry that comparatively little or no bad weather was experienced in actual hunting operations. These conditions, by the Paris regulations, are entirely changed. Apart from the widening of the territorial zone to one of 60 miles, necessitating a correspondingly greater distance from the lee of the shores, the close season is so arranged that vessels are not permitted to enter Behring Sea before 1st August, after two of the best sealing months are over, and very shortly before the admittedly bad weather has begun.

An examination of the sealing logs on file in the department, will show that of the vessels in Behring Sea this year, the last hunting days were as follows:—

1	vessel,	8	September.	. 4	1	vessels,	17	September,
1	do	11	do	8	}	do	19	do
2	do	13	do	1		do	21	do
1	do	14	do	1		do	26	do
4	do	15	do	1		do	4	October.

So that it will be seen that the Behring Sea season consists of little over a month and a half, not half of which period is favoured with admittedly good weather, as judged by the old standard, and that vessels to make anything like a profitable venture are compelled to remain hunting as long as the weather will permit, or practically a month later than the date which in the earlier years of the business was tacitly looked upon as the beginning of unfavourable weather.

It would thus appear that so far as the Behring Sea season is concerned, there can be no doubt that the hunting operations under the terms of the Paris Award, are necessarily pursued in much more boisterous and therefore unpropitious weather,

than when the hunting was carried on in June and July as well as August.

Nor is the change of conditions confined to the effect produced through change of dates and consequent weather, but it has been suggested that the increasing wariness of the seals may be largely due to the constant disturbance of the water

of the sealing grounds by the propellers of patrolling cruisers.

It might perhaps be interesting to briefly examine the possible effect in this direction of the extensive patrol as conducted. A brief scrutiny of the logs of the sealers on file in the department, will show the average position of the sealers in Behring Sea to have been, this season, to the south and south-east of a 60 mile zone around the Pribylov Islands; thence a reasonable hunting distance seaward in the track of the seals.

The bulk of the sealers were, therefore, to be found in what may be called a com-

paratively restricted area.

Whatever may be argued as to the effect of the moving vessels upon the animals and their timidity generally, from a natural history point of view, involving their subsequent movements or change of habitat, from a practical point of view it does not seem open to doubt that it must exert an immense influence upon the operations of the sealers hunting at sea. It is a well-known fact that successful seal hunters depend principally upon finding the seals asleep at sea, and that although they are taken at other times, and the sealer will try for everything within reasonable reach, it is from the sleeping animals that the sure and remunerative "takes" are sought after and secured.

It therefore goes without saying that any constant commotion in these remote seas caused by the disturbance of the waters, involved in the passing and re-passing of these steamers, must at least to the extent it would disturb seals asleep upon the

surface of the sea, deter or hinder successful seal hunting.

When it is considered that the early pelagic scaling operations began in these seas when they were to all intents and purposes peaceful, and unaffected by any of the disturbing influences of vessels of war or of commerce, it should not require much argument to force the conclusion that the changed conditions must materially influence the success of the hunters.

The point which such interference might reach could perhaps best be suggested by a glance at the charts showing the tracks of the United States patrol fleet in Behring Sea, were these available at the moment, but in the Departmental Report for 1895, under the heading "Boarding of British Vessels by U.S. Patrol Ships" the extent of the patrol is shown at considerable length.

Out of 35 vessels visited between the 3rd August and 20th September,

7	vessels	were	boarded	once.
10	do		do	twice.
4	do		do	three times.
6	do		do	four times.
5	do		do	five times.
3	do		do	six times.

This represented actual visits to sealers irrespective of constant passing and repassing.

This year there were 8 steamers engaged in the patrol.

THE PATROL FLEET.

The vessels engaged in the patrol of Behring Sea, during the season, to enforce the award regulations, were H.M.S. "Amphion," "Wild Swan" and "Pheasant," and the United States revenue cutters "Bear," "Rush," "Corwin," "Perry," and "Grant."

DISASTERS.

The list of casualties this year was somewhat large as compared with the comparatively small fleet.

The schooner "Agnes McDonald," 107 tons, was wrecked 5 miles south of

Akishi, on the coast of Japan on the 21st June, 1897.

The schooner "Maud S," 97 tons, was wrecked off Queen Charlotte Islands on April 23rd, 1897, and the schooner "Sapphire," 109 tons, was burned at sea in latitude 48° 36′ N, longitude 125° 55′ W, on the 23rd April, 1897. It will be noticed that these vessels were among the largest in the fleet.

PROPOSALS FOR SUPPLEMENTARY ARRANGEMENTS.

In the report of last year, under the heading "Proposal for supplementary arrangements as to fire-arms and expert examination of seal skins," the propositions of the United States government in this regard were explained and their previous

connection with the agreement for sealing up of fire-arms, referred to.

As regards the proposal for an expert examination of seal skins by United States officials on the return of the vessels to their home ports, for the purpose of determining the sexes of the animals from which they had been taken and whether they had been killed by spears or fire-arms, it was shown the Canadian government had been wholly unable to assent to such an expedient, and the grounds upon which such a decision was reached were fully explained.

Touching the concurrent proposal which was:-

1. That vessels proceeding direct to Behring Sea from Victoria, should present the certificate of the collector of customs that no fire-arms were on board, to the collector of customs, or to the commander of the United States fleet patrolling Behring Sea, at Ounalaska; that thereupon such vessels be searched by duly authorized patrolling officers, and the fact endorsed on the certificate, that such certificate duly endorsed may be accepted by the officers of the patrolling vessels as evidence of the fact that no fire-arms are concealed on board; unless some information or evidence of violation of law, other than mere suspicion, is in the possession of, or found by the boarding officer.

Although unwilling to admit the necessity for the endorsation of the British certificate by United States officials, rather than appear as interposing any undue objections to proposals of such a nature as to render their acceptance at all possible, the Canadian government yielded to the wishes of the United States government, on condition that it should be distinctly understood that the language of the proposal should be changed so that the words "may be accepted" should read "shall be accepted," and that the endorsed certificate should be accepted by all

boarding officers as proof that no fire-arms were carried.

The United States government, however, were unwilling to agree that the endorsation under such conditions should be final, holding that further search would be useful.

Thus no agreement was reached during the sealing season for the application

of any supplementary proposals.

Correspondence on the subject was renewed by the United States in an endeavour to secure some arrangement which might be put in force during the season just closed, and they pressed for an agreement involving a return to the arrangement for the sealing up of arms.

On renewal of these propositions, the ground taken by the Canadian government was that there was nothing to justify supplementary measures in excess of the actual requirements of the Behring Sea Award Regulations.

The question had already engaged the attention of the government which had been willing to sanction a conditional agreement touching certificates of sealing vessels as to the presence of fire-arms on board in Behring Sea, which had failed to satisfy the United States, even though providing for a search by their own officials.

While nothing had occurred to change the views of the Canadian government, which still had full force and effect, and therefore no grounds existed upon which a reversal of those views could be based, and while still adhering to the belief that the practical extension of the regulations in the direction asked by the United States, instead of being operative of good, would prove a source of further complication and difficulty, nevertheless if in the opinion of Her Majesty's government the sealing up of arms on voluntary application of the masters, would tend to obviate useless searching and consequent irritation arising therefrom; and if Her Majesty's government were further of opinion that any guarantee against its improper use with attendant immunity from interference could be had, the Canadian government, with every desire to remove all cause of friction, would be inclined to defer to the wishes of Her Majesty's government, in so far as a renewal of the agreement for the sealing up of arms was concerned.

As regarded, however, the suggested examination of seal-skins on the arrival of the vessels at their port of destination, Canada remained satisfied that the reasons previously given were conclusive against the unnecessary concessions which the

adoption of such a regulation would involve.

When the willingness of Her Majesty's government to renew the agreement for the sealing up of arms which had been in force during 1894, was communicated to the United States government, objection was taken to the insufficiency of such an arrangement, which it was said, was merely of a temporary and provisional nature, and inadequate to properly carry out the intent and purpose of the award, and therefore the proposal of Her Majesty's government for a renewal of the said arrangements was not acceptable to the United States' government.

At the same time the United States offered to give British sealers the benefit of articles IV., V. and VI. of the "Regulations governing (United States) vessels

employed in the fur-seal fishing during the season of 1897.

The articles read as follows:-

ARTICLE 4.

In order to protect from unnecessary interference, sealing vessels found within the area of the award, during the closed season (that is to say between 30th April and 1st August), but which have not violated the law, any sealing vessel intending to traverse the area of the award during said closed season, on her way to her home or other port, or to or from the sealing grounds, or for any other legitimate purpose, may, on the application of the master, have her sealing outfit, including guns and ammunition, secured under seal, and an entry thereof made on her log-book. Such sealing up and entry shall be a protection to the vessel against seizure during the closed season, by any cruiser, so long as the seals so affixed shall remain unbroken, unless there shall be evidence of violation of the articles of the Award and said Act of Congress of 6th April, 1894, notwithstanding.

ARTICLE 5.

Such sealing up and entry may be effected in port or at sea, by any naval, consular, or customs officer of the United States, and at sea also by the commander of a British cruiser. An officer will be stationed at the island of Attu for this purpose from 1st July to 25th August.

The officer effecting the scaling up shall make entry in the vessel's log-book, certifying the fact and stating in detail the number and kind of guns and other scaling implements, the amount and kind of ammunition, and the number and sex of the scals and scal-skins on board.

ARTICLE 6.

All sailing vessels, bound to Behring Sea for the fur-seal fisheries, shall, before engaging in fur-seal fishing within the Award area in said sea, report to the officer of the Revenue Cutter Service stationed at Attu Island, or to the Deputy Collector

of Customs at Unalaska.

The said officers shall respectively secure under seal the guns and ammunition on board all vessels thus reporting, which have not already been so secured under the provisions of article 4 of these rules and regulations, and shall in either event, make due entry thereof on the log-book of said vessel, stating in detail the number and kind of guns and other sealing implements, the amount and kind of ammunition, and the number and sex of the seals and seal-skins on board. Such sealing up shall afford the same protection as is provided under said article 4. In lieu of said sealing up the master of any vessel so reporting may deliver all guns and ammunition on board to the customs or revenue officers, respectively, in charge of said islands, said guns and ammunition to be held at the sole risk of said master until called for at the end of the sealing season.

Her Majesty's government was unable to accept the proposal for the adaptation of these regulations to British sealing vessels, but announced its willingness to instruct and subsequently did issue instructions to Her Majesty's ships patrolling the area affected by the Award, to seal up the arms and ammunition of any British vessel which might apply to them for the purpose, and at the same time to enter the fact upon the vessel's log.

This was acknowledged by the United States government, although it was feared that the intimation would reach the commander of the United States patrol

fleet too late for the sealing season.

REQUEST OF SEALERS FOR RELAXATION OF PARIS REGULATIONS.

Early in the year the government received from the Governor of British Columbia an approved report of a committee of the Executive Council, setting forth that any agreement such as appeared possible for the closure of Behring Sea, would practically destroy the sealing industry in the province and jeopardize the financial position of a large number of persons whose interests were involved.

The present regulations had seriously affected the sealing industry and caused a falling off in the catch, which coupled with the low prices prevailing in the London markets, had resulted in great loss to the owners of sealing schooners and all.

concerned.

Three of the best scaling months—two on the coast and one in Behring Sea—formed the close season, and in other respects the regulations were arbitrary and excessively severe, therefore any revision should be in the direction of modification and provide against hardships and loss to the fleet, arising out of seizures on merely suspicious circumstances or for technical violations of the law, in order that the sealing business might be placed on a more secure basis.

This was followed by a further report of the Executive Council suggesting certain changes in the regulations, if a modification be found desirable at the end of

1898, in accordance with the award,

The adoption of such regulations it was thought would enable the sealers to carry on their industry without any unnecessary loss, and without any serious detriment to the seal herds.

These representations on behalf of the sealers were forwarded to Her Majesty's government, in order that they should have the benefit of the views of the sealers when approaching the discussion of any revision of the regulations, which may eventually require consideration.

It may not be inopportune, to remark in this connection, that notwithstanding the attitude of the United States government, and their unwearying efforts to mould the general opinion in the direction that seal hunting at sea must of necessity be discontinued, under the circumstances; there is nothing whatever in the Paris Award, nor in the specific portion thereof, which provides for a possible revision, that can give any colour to a demand that such a revision must need be directed solely to the detriment of pelagic sealing.

It is not to be forgotten that the necessity for a revision or modification of these restrictions is, by the terms of the award, made contingent upon the common agreement of the two governments, and a submission thereof every five years to a new examination is to enable both interested governments to consider whether, in the

light of past experience, there is occasion for any change.

Considering the present condition of affairs, it may be that the full limit of restriction, especially in Behring Sea, consistent with a reasonable participation in the business, has been exceeded by the present regulations.

There is no necessity to attempt to justify the pelagic sealers; they are established in their vocation, with rights to be respected on the one hand and protected on the other; hence any new regulations must contemplate this position.

The opposing side should surely face the facts as they are found to exist, and if it be established that the two interests cannot proceed side by side, there seems to be no reason why the more general one should be sacrificed if the exigencies of the case seemed to demand the sacrifice of either.

PROPOSED CHANGES IN AWARD REGULATIONS.

Since the first year's test of the Paris Regulations, the United States government have been unremitting in their efforts to effect a revision of the restrictions upon pelagic sealing, and to bring into use some other code of regulations designed to

entirely suppress all killing of seals at sea.

In April, 1897, this phase of the question developed in a proposal through the United States Ambassador at London, setting forth that as a result of the investigations into seal life conducted during 1896, the existing state of the Alaskan seals had forced itself, in the midst of many cares attending the organization of the administration, upon the attention of the President, to whom the depleted condition and prospective early extinction of the herd are matters of grave concern.

The Ambassador was consequently directed to communicate to Her Majesty's government the President's earnest hope and expectation that effective measures be immediately adopted by the respective governments, with a view to putting a

stop to the indiscriminate slaughter of seals through pelagic sealing.

An immediate modus vivendi, based upon that of 1891, with equitable provision for the various interests involved, suspending all killing of all seals during the season of 1897, in Behring Sea, was proposed, such modus vivendi to be accompanied by an arrangement for a joint conference of the powers concerned for the purpose of agreeing upon necessary measures for the preservation of the seals in the North Pacific Ocean from extermination.

It was argued that to defer taking up the subject until the termination of the season of 1898, as contemplated by the Paris Award, would be fatal to the object in view, as should the destruction continue during two more seasons, the seals would

have disappeared, and with them the necessity for a conference.

The views of the Canadian government as to the statement that the inference to be drawn from recent investigations was corroborative of the previous statements of the United States authorities as to the extent of the alleged decrease in seal life, were shown in an examination of the estimates in the number of fur-seals of all classes on the Pribylov Islands in 1895 and 1896.

Reference to United States Senate Executive Document, No. 137, part II., 54th Congress, 1st Session, p. 234, showed that Mr. Charles H. Townsend in 1895, estimated the number of breeding females on St. Paul and St. George Islands at 65,239 at the height of the season; 75,000 was the largest number he would admit were there.

Mr. Townsend is said to have had greater experience than any other agent of either the United States or British governments who visited the islands, and his estimate of the number of breeding seals in 1895 might be taken to be as nearly

correct as possible.

It was discovered in 1896, however, that the count of breeding females at the height of the season represented only four sevenths of the actual number, that is to say it was found there were 75 per cent more pups than the number of cows counted, so that in 1895, if the conditions were the same as in 1896, there were according to Mr. Townsend's estimate, 65,239 plus 75 per cent breeding cows, i.e: 114,166.

Mr. F. W. True, curator of mammals, United States National Museum, also made a careful estimate of the seals of all classes on the Pribylov Islands in 1895. His estimate seems to have been carefully made. His estimate of the number of breeding seals on St. Paul's Island was 61,436, and on St. George Island 8,987, a total for both islands of 70,423. This estimate is about 5,000 higher than Mr. Townsend's specific figure, and about 5,000 lower than his maximum figure. If 75 per cent be added to Mr. True's estimate, the total number of breeding females in 1895 would be 123,240.

The actual number was probably somewhere between the figures of Mr. Townsend

and Mr. True.

In 1896, counts and estimates similar to those of Messrs. True and Townsend, for the previous year, were made by Dr. Jordan, United States, Prof. Thompson, British, and Mr. Macoun, Canadian experts.

The actual number of breeding temales on the Islands at one time at the height of the season, was estimated to be 81.793 as compared with Mr. Townsend's estimate

of 65,239 and Mr. True's of 70,423 in 1895.

The total number of pups born in 1896 (143,071) was found to exceed the number of cows counted by 75 per cent; adding this 75 per cent the result is:-

		Cows.	Pups born.
Mr. True.	1895	70,423	123,240
Mr. Townsend,	1895	65,239	114,166
Observers of	1896	81,793	143,071

The estimates of these years are based on actual counts on several rookeries,

and the rookeries available for comparison are Katavie and Lagoon.

In 1895, Mr. True found in Lagoon rookery at the height of the season 1,264 cows. Mr. Townsend found on the same rookery 1,216. Sen. Ex. Doc. No. 137, pt. 2, 54 Cong., 1 Sess., p. 101-135. In 1896 the count of the same rookery at the height of the season showed 1,474 cows. Dr. Jordan's Rept., p. 16.

In 1895 Mr. True found on Katavie rookery 2,640 cows: Mr. Townsend counted only 2,218, however, and Mr. True may have included part of Lukannon rookery

which joins Katavie. S. Ex. Doc. p. 101-135.

In 1896 at the height of the season, 3,152 cows were counted on Katavie, a very

material increase as compared with even Mr. True's count.

While in 1895 Mr. Townsend made no e-timate of the whole number of seals on the Islands, Mr. True did, placing the numbers of bachelors, breeding bulls, cows and pups, on both islands at 155,977. This estimate was too small, because the actual number of cows is now supposed to have been 75 per cent larger than those counted, and he included no estimate of virgin females.

When these two factors are taken into consideration the total number of seals

in 1895, according to his estimate, would be about 250,000.

Dr. Jordan in 1896, estimated the whole number of seals on the islands at from 429,147 to 479,147 a number greatly in excess of the 1895 estimates.

Mr. Macoun's estimates for 1896, are considerably higher than Dr. Jordan's.

He placed the total number of seals upon the islands at 503,647.

In 1895 Mr. True estimated the whole number of bachelors of all ages, including the quota killed by the company at 24,144, whereas the lessees, during 1896, secured 30,000 first class skins without difficulty.

Therefore there was no evidence or data of any kind showing a decrease in the herd of seals between 1895 and 1896, beyond the bald statements in denunciation of pelagic sealing.

It was contended also that the investigation had practically disposed of one of the principal arguments of the United States as to the cause of death of pups upon the islands. This point is fully dealt with in this article under another heading.

The seizure of British ships on the high seas raised only the question of right

under international law, but in the course of the voluminous correspondence the United States successfully contended against the Canadian position, and the Paris Award not only dealt with the question of natural history, which Canada had endeavoured to keep outside the field of arbitration and which involved the regulation of the sealing industry on the high seas, but gave to it a very important position in the findings.

When the award regulations became known the United States authorities and those more intimately connected with the proceedings at Paris, did not hesitate to express the opinion that pelagic sealing could no longer proceed with profit, and that the interests of the lessees of the sealing privileges on the Pribylov Islands would not

under the new condition of affairs be injuriously affected.

Every effort was brought to bear for the immediate adoption of legislation, and such legislation and instructions as were provided were considered by Canada to exceed in stingency the Treaty and Award obligations

But pelagic sealing could and did proceed notwithstanding, and this fact alone was sufficient to condemn the regulations in the face of the undoubted rights of the

sealers.

The position that the Paris Regulations should have the fair trial which the five years' term contemplated, or at any rate no revision thereof should be agreed to before the expiry of that term was adhered to, especially as no evidence had been adduced to show that the regulations had failed in their effect,

Touching the proposed international conference, a similar proposition had been advanced in 1895 and fully discussed. The controversy between the United States and Great Britain was limited to the protection of the seals on the Pribylov Islands,

a matter in which no other nation had any concern.

No question had ever been raised as to the obligatory nature of the regulations, and obligations to the award, as well as to principle of arbitration, seemed to preclude

any precipitate or premature revision.

Those engaged in the legitimate and precarious vocation of pelagic sealing it was considered had reason to expect ordinary protection in their rights, and there was no ground to regard their competition with others other than in the ordinary light.

It is impossible to reconcile the two methods of reaping the seal harvest, but no reason has been shown why the pelagic sealing industry alone should suffer, unless it be a desire for the rehabilitation of the lessees of the islands in a monopoly

of the fur-seal business.

Without an entire reversal of position, Canada could not entertain any views on this renewed proposal for a suppression of pelagic sealing other than in direct

opposition thereto.

Only two sealing seasons intervened between the date set for the revision of the regulations, and it did not seem unreasonable to expect of the United States government that they should abide by the regulations which had been brought about through their own exertions.

It was believed that it had been clearly demonstrated that there was no ground for the fear expressed by the President of the early extinction of the seal herd, or of the anticipated disappearance of the seals before the time arrives for the revision of

the regulations under the terms of the award.

Indeed just grounds appeared to obtain from which to reach the exact opposite conclusion, and no justification was apparent to anticipate any abnormal decrease or

destruction during the remaining two seasons.

In the face of the fact that it was the intention of Great Britain and Canada to continue expert examination into seal life during 1897, by which it was expected to augment very considerably the information possessed as to the contentions affecting 11a - 22

the relative destruction of pelagic sealing, which contention had been materially weakened by the observations of 1896; the time did not seem ripe for change.

There was besides a very practical difficulty in the way of an interim arrangement in the fact that the scalers were already operating on the Asiatic side, and under the most favourable circumstances any modus vivendi could be but a partial success.

Moreover, in view of their vindicted rights, the sealers could with much more reason and justice demand full and complete compensation for the loss or interference with their business than in 1891, before the Paris Award, for which year Great Britain paid them a large sum when they prohibited sealing on Behring Sea, thus admitting the principle of compensation.

Neither Great Britain nor Canada could be expected to contribute to compensation under the changed conditions for a curtailment of rights of the sealers

in the open ocean.

However important it might be that wholesome and economic regulations should exist for the preservation of the seal race, there were yet to be safeguarded the interests of Her Majesty's subjects in Canada in a reasonable participation in an important industry expressly sanctioned and regulated by international arbitration.

The result of the proposal was instructions from the Imperial Government to the Ambassador at Washington, 22nd April, 1897, for a reply to the United States

Government to the following effect.

Similar statements as to the immediate disappearance of the herd had been made in previous years, but experience had shown that the fears then expressed were groundless, and Her Majesty's government were convinced that they would prove to be equally so on the present occasion. The small catch and low prices obtained for the skins in 1896 brought many of the owners of the sealing vessels to the verge of bankruptcy, and were Her Majesty's government to prohibit pelagic sealing altogether for 1897, it would mean the probable ruin of a considerable number of British subjects engaged in a lawful industry. Of course, if the United States government were prepared to give adequate compensation to the sealing fleet on account of its enforced abstention from the fishery during the season, Her Majesty's government would have no reason for refusing their assent to the proposal for a modus vivendi, but they did not gather that such was the case, and it would be impossible for them to submit a vote to Parliament for the purpose, holding as they did that no sufficient reason had been shown for its necessity.

As regards the proposed conference, Her Majesty's government believed that further investigation was necessary on many points connected with seal life before the questions at issue could be discussed with the hope of attaining any satisfactory

result.

Dr. Jordan and Professor Thompson were agreed upon the importance of an accurate count of seals on the principal rookeries during several seasons in order to ascertain the changes from year to year, and there were other important points mentioned in the conclusion of Mr. Thompson's report on which, pending further inquiry, he found it desirable to suspend judgment.

Admittedly, the investigations of 1896 afforded for the first time any really reliable statistics in regard to the condition of the herd, and all previous reports received on the subject were practically valueless for purposes of comparison.

To estimate accurately the effect on the herd of the various agencies for the time at work, reliable statistics, extending over a sufficient period to enable accidental circumstances to be eliminated, should be available, and Her Majesty's government adhered to the view that further investigation was required before the question of revising the regulations could be considered.

In a later communication, 7th May, referring to the same proposal, the Marquis

of Salisbury wrote the Ambassador at Washington as follows:

"Until such information is available it would, in the opinion of Her Majesty's government, be premature to enter upon the proposed conference to discuss measures based on conjectures admitted to be of doubtful value, and the interests of this country in the question are too serious to warrant Her Majesty's government in imperilling them by the adoption of any hasty decision."

EXPERT INVESTIGATION ON THE PRIBYLOV ISLANDS.

The expert examination into seal life on the rookeries was continued during the season just closed, Her Majes y's government being represented as in 1896, by Professor D'Arcy Wentworth Thompson and Mr. Barrett-Hamilton, and the Canadian government by Mr. James M. Macoun. The United States representation was

entrusted again to Dr. David Starr Jordan and his assistants.

A notable feature in the results of this year's investigations was the discovery of the vast inroads upon the herd by the parasitic worm uncinaria, which was found to exist to a most alarming degree in the nursing pups. So destructive is this parasite now known to be that it is admitted that the number of dead pups counted on the rookeries between August 8th and 14th, 1896, 11,045, while recognized to be an under estimate, was almost wholly attributed to the ravages of this deadly scourge, and there is every reason for believing the effect to be continuous throughout the whole season since the death rate still increases.

It will be remembered that prior to the recent investigations into the natural history of the seals, even as recently as 1894 and 1895, the large number of dead pups found upon the islands was charged entirely and without qualification to the effects of pelagic scaling through killing the nursing mothers at sea, their offspring

dying from starvation upon the islands.

From that contention the Canadian government has sedulously dissented, holding that some other and more reasonable causes were to be sought for the

abnormal death rate of the young pups in their natural environment.

The observations of 1896, however, tended very considerably to nullify the United States contentions, and at least to make it necessary to greatly qualify the broad and unsupported assertions in the one direction. Hence, it was demonstrated that among the natural causes of the death of pups were to be found the important factors: trampling by fighting bulls or by moving bulls and cows; starvation of pups strayed from their mothers or who had lost their mothers from natural causes; ravages of the killer whale; drowning in storms and many other minor causes which might be enumerated.

It may here be mentioned that while in 1896 great stress was laid upon the loss of young seals through trampling, the importance of this particular source of loss was much diminished by the facts demonstrated in 1897 as to the effects of

the uncinaria.

If Janada had to look for any further vindication of her attitude in this respect, it is surely to be found in the extraordinary developments of 1897, which has unmasked a menace to seal life, in the shape of a parasite, of which the pelagic sealers are profoundly innocent, and which far outweighs any factor of destruction

that has ever yet been shown to obtain or even has been charged.

The facility with which this cause of death might be confounded with starvation, will appear from the following extract from Mr. Macoun's report: "The number of "so called starving pups must also have been greatly overestimated in 1896. One " of the effects of the uncinaria is to give the pups upon which it is preying a woe-" begone listless look that has hitherto been assumed by everyone-myself included -to be a sure sign of starvation."

Canada has never contended that pelagic sealing may not have been one of the causes of the death of pups, only that it has not been the main cause of death, or as has been so persistently contended by the United States government, the sole cause.

Let us consider the effect of these discoveries. We find admittedly, say 11,000 dead pups upon the islands from one known cause, whose mothers need no longer remain there for the purpose of looking after their young. Hence, we could have at sea a corresponding number, 11,000 females with milk, to all appearances nursing mothers, every udividual of which might be killed by the pelagic sealers without involving the los of a single pup upon the islands.

It has been time and again asserted by the United States that female seals killed at sea were either pregnant or nursing, the former on the coast and the latter in Behring Sea. It is now admitted, however, that there are included not only these

 $11a - 22\frac{1}{2}$

classes but also young seals that are not pregnant and others that have not yet brought forth young, with such others also as have lost their young through the

various causes of natural mortality.

Contrasting this fact with the attitude of the United States, that every female seal in milk found at sea necessarily left an unprotected pup to starve upon the islands, shows the fallacy of the position so untiringly maintained throughout the diplomatic correspondence.

THE CONFERENCE OF FUR-SEAL EXPERTS.

During the presence in England of the Canad an Premier and the Minister of Marine and Fisheries last summer, the United States Seal Commissioner, Hon, John W. Foster, proposed to Her Majesty's government a conference of the fur-seal experts for the purpose of reaching some common conclusion as to the actual present condition of the seal herd upon the Pribylov Islands.

The Canadian representatives, to whom the proposition was referred, recorded

their assent to a conference in effect as follows:-

The proposal was understood to be that a conference or meeting should be had at Washington during the autumn, between representatives of the governments of Her Majesty, the United States and Canada, which conference or meeting should also be attended by the several experts then engaged in making observations and collecting facts with respect to seal life in Behring Sea and the Pribylov Islands. The object of the conference or meeting would be to collate the facts and observations gathered by the experts, with a view, if possible, of arriving at correct conclusions respecting the numbers, condition and habits of the seal herd frequenting the Pribylov Islands at the present time, and as compared with the several seasons since the Paris Award.

It was believed that such a meeting or conference might result in great good. Personal interviews and discussions between the experts would probably result in, at least, an agreement upon the main facts which the respective governments were desirous of ascertaining. The understanding, of course, being that such a meeting or conference would not in any way be authorized to alter or modify the existing regulations under which the sealing industry was being carried on; but regulations could be more intelligently discussed afterwards by the several governments interested, in the light of the

facts collected by the experts and collated at the proposed meeting.

This was followed by an agreement between the governments of Great Britain and the United States, which was communicated by the Marquis of Salisbury in a note to the United States Ambassador at the Court of St. James, in the following language:-

In the last paragraph of the despatch addressed to you by Mr. Sherman under date of the 16th May last, and communicated by you to me on the 22nd of that month, a wish is expressed for a con-

ference of the Powers interested in the fur-seal fishery of the North Pacific.

In reply, I have to state that Her Majesty's government are willing to agree to a meeting of experts nominated by Great Britain and Canada and by the United States, in October next, when the further investigations to be made on the islands during the present season will have been completed. The object of the meeting would be to arrive, if possible, at correct conclusions respecting the numbers, conditions and habits of the seals frequenting the Pribylov Islands at the present time as compared with the several seasons previous and subsequent to the Paris Award.

It seems to Her Majesty's government that Washington would be the most suitable place for

such a meeting.

Efforts were made by the United States government to induce Her Majesty's government to include Russia and Japan in the conference as interested nations, but after considerable correspondence on the subject, Her Majesty's government adhered to the terms of the general agreement, which in no way contemplated the inclusion of nations other than those having direct interest in the Pribylov Islands, and it was not apparent what useful purpose could be served by the participation of Russia and Japan in a meeting of experts appointed to consider the state of the seal herd frequenting them.

If therefore transpired that the final agreement confined the conference to representatives of Great Britain, Canada and the United States, the object and scope of the meeting being formally and expressly defined in language italicized in the

above quotation from Lord Salisbury's note.

Failing to arrange a conference of broader scope, the United States government participated in a separate meeting with Russia and Japan touching the sealing question just previous to the one above explained. The conclusions reached, however, have not been communicated to the Canadian government, neither Great Britain nor Canada taking any actual interest therein.

The conference between Great Britain and the United States met at Washing-

ton on the 10th November, 1897, the delegates being:

On the part of Great Britain, Professor D'Arcy Wentworth Thompson.

On the part of Canada, James Melville Macoun.

On the part of the United States, Hon. Charles Sumner Hamlin and Dr. David Starr Jordan.

Mr. C. F. Frederick Adam, representing Her Majesty's Embassy, Hon. Sir Louis H. Davies, representing Canada, and Hon. John W. Foster, representing the United

States, attended the meeting.

The conference was concluded on the 17th November, 1897, after a "Joint statement of conclusions respecting the fur-seal herd frequenting the Pribylov Islands and Behring Sea" had been formally agreed to and signed by the several delegates.

The text of the finding of the experts is as follows:-

Joint Statement of Conclusions Respecting the Fur Seal Herd Frequenting the Pribilof Islands in Behring Sea.

The undersigned, duly empowered delegates, engaged during recent years in the investigation of the condition and habits of the fur seal herd frequenting the Pribilof Islands in Behring Sea, viz. :-

On behalf of Great Britain—D'Arcy Wentworth Thompson; On behalf of Canada—James Melville Macoun,

On behalf of the United States—Charles Sumner Hamlin and David Starr Jordan; Have met in conference under instructions from our respective governments. Under these instructions we were directed:

"To arrive, if possible, at correct conclusions respecting the numbers, conditions and habits of the seals frequenting the Pribilof Islands at the present time as compared with the several seasons

previous and subsequent to the Paris Award."

As a result of such conference, now completed, we, the above-named Charles Sumner Hamlin, David Starr Jordan, D'Arcy Wentworth Thompson, and James Melville Macoun, find ourselves in accord on the propositions contained in the following joint statement of conclusions respecting the fur seal herd frequenting the Pribilof Islands, and make this our report.

JOINT STATEMENT.

1. There is adequate evidence that, since the year 1884, and down to the date of the inspection of the rookeries in 1897, the fur seal herd of the Pribilof Islands, as measured on either the hauling grounds or breeding or breeding grounds, has declined in numbers at a rate varying from year to year.

2. In the absence for the earlier years of actual counts of the rookeries such as have been made in recent years, the best approximate measure of decline now available is found in these facts:

(a) About 100,000 male seals of recognized killable age were obtained from the hauling grounds each year from 1871 to 1889. The table of statistics given in appendix I shows, on the whole, a progressive increase in the number of hauling grounds driven and in the number of drives made, as well as a retardation of the date at which the quota was attained during a number of years previous

(b) In the year 1896, 28,964 killable seals were taken after continuing the driving till 27th July, and in 1897, 19,189 after continuing the driving till 11th August.* We have no reason to believe that during the period 1896 and 1897 a very much larger number of males of recognized

killable age could have been taken on the hauling grounds.

The reduction between the years 1896 and 1897 in the number of killable seals taken, while an indication of decrease in the breeding herd, can not be taken as an actual measure of such decrease. A number of other factors must be taken into consideration, and the real measure of decrease must

be sought in more pertinent statistics drawn from the breeding rookeries themselves.

3. From these data it is plain that the former yield of the hauling grounds of the Pribilof Islands was from three to five times as great as in the years 1896 and 1897, and the same diminution to onethird or one-fifth of the former product may be assumed when we include also the results of hunting at sea.

4. The death rate among the young fur seals, especially among the pups, is very great. While the loss among the pups prior to their departure from the islands has been found in the last two

^{*} The nominal quota of 30,000 for 1896 and of 20,890 for 1897 included food skins taken in the fall of 1895 and

years to approach 20 per cent of the whole number born, and though the rate of subsequent mortality is unknown, we may gather from the number which return each year that from one-half to two-thirds have perished before the age of three years—that is to say, the killable age for the males and the breeding age for the females.

5. The chief natural + causes of death among the pups, so far as known at present, are as

follows, the importance of each being variable and more or less uncertain:

(a) Ravages of the parasitic worm, Uncinaria, most destructive on sandy breeding areas and during the period from 15th July to 20th August. (b) Trampling by fighting bulls or by moving bulls and cows, a source of loss greatest among

very young pups.

(c) Starvation of pups strayed or separated from their mothers when very young or whose mothers have died from natural causes.

(d) The ravages of the great killer (Orca), known to be fatal to many of the young and perhaps

also to older seals.

At a later period drowning in the storms of winter is believed, but not certainly known, to be a cause of death among the older pups.

6. Counts of certain rookeries, with partial counts and estimates of others, show that the number of breeding females bearing pups on St. Paul and St. George was, in 1896 and 1897, between 160,000 and 130,000, more nearly approaching the higher figure in 1896 and the lower in 1897.

7. On certain rookeries, where pups were counted in both seasons, 16,241 being found in 1896, and 14,318 in 1897, or, applying a count adopted by Professor Thompson, 14,743 in the latter year, there is evident a decrease of 9 or 12 per cent within the twelve month in question. The count of pups is the most trustworthy measure of numerical variation in the herd. The counts of harems, and especially of cows present, are much inferior in value. The latter counts, however, point in the same direction. The harems on all the rookeries were counted in both seasons. In 1896 there were 4,932; in 1897 there were 4,418, a decrease of 10.41 per cent. The cows actually present on certain rookeries at the height of the season were counted in both seasons. Where 10,198 were found in 1896, 7,307 were found in 1897, a decrease of 28.34 per cent.‡

8. It is not easy to apply the various counts in the form of a general average to all the rookeries of the islands. We recognize that a notable decrease has been suffered by the herd during the twelvementh 1896 to 1897, without attempting, save by setting the above numbers on record, to

ascribe to the decrease more precise figures.

9. The methods of driving and killing practised on the islands, as they have come under our observation during the past two years, call for no criticism or objection. An adequate supply of bulls is present on the rookeries; the number of older bachelors rejected in the drives during the period in question is such as to safeguard in the immediate future a similarly adequate supply; the breeding bulls, females, and pups on the breeding rookeries are not disturbed; there is no evidence or sign of impairment by driving of the virility of males; the operations of driving and killing are conducted skilfully and without inhumanity.

10. The pelagic industry is conducted in an orderly manner and in a spirit of acquiescence in the

limitations imposed by the law.

11. Pelagic sealing involves the killing of males and females alike, without discrimination and in proportion as the two sexes coexist in the sea. The reduction of males effected on the islands causes an enhanced proportion of females to be found in the pelagic catch; hence this proportion, if it vary from no other cause, varies at least with the catch upon the islands. In 1895, Mr. A. B. Alexander, on behalf of the Government of the United States, found 62.3 per cent of females in the catch of the *Dora Siewerd* in Behring Sea, and in 1896, Mr. Andrew Halkett, on behalf of the Canadian Government, found 84.2 in the catch of the same schooner in the same sea. There are no doubt instances, especially in the season of migration and on the course of the migrating herds, of catches containing a very different proportion of the two sexes.

12. The large proportion of females in the pelagic catch includes not only adult females that are both nursing and pregnant, but also young seals that are not pregnant and others that have not yet brought forth young, with such also as have recently lost their young through the various causes of

natural mortality. ++

†That is to say, not including losses ensuing from the killing of mothers at sea.

The number of dead pups counted on the rookeries between 8th August and 14th, in 1896, was 11,045. It is recognized that this number is an underestimate, inasmuch as a greater numbermust have been overlooked than were counted twice. It is also recognized that the great majority of these pups died from the attacks of the worm

Were counted twice. It is also recognized that the great majority of these pups are from the actacks of the work.

* The importance of this source of loss we now find to be much less than was supposed to be the case from the investigations made in 1896. (See Reports for 1896, Jordan, p. 45; Thompson, p. 20; Macoun, MSS.)

** For detailed account of the census of 1896, see Jordan, Preliminary Report for 1896, p. 19; Macoun, Report, 1896, MSS. For a discussion of suggested corrections to the census of 1896, Jordan, Final Report, 1897. For details of the census of 1897, see Thompson, Report, 1897; Macoun, Report 1897; Jordan, Report, 1897. A correction to be made in the census of 1896 arises from the agreed assumption that the total number of breeding females was 175 times the number seen in the height of the season. Later observations show that the actual total is at least twice the maximum number ever seen at once on a rookery.

† The extreme irregularity of the number of cows present on the rookeries from day to day, and the consequent invalidity of any comparison of their number, is shown by the counts made on Lukanin and Kitovi rookeries during the season of 1897. See Appendix II.

†† Statements on which to base an estimate of the relative numbers of these several classes are necessarily incomplete, but the following notes may serve as a partial guide:

Townsend, Report 1895, pp. 46, 47.

Alexander, Report 1895, pp. 46, 47.

Alexander, Report 1897, MSS.

Lucas, Report 1897, MSS.

13. The polygamous habit of the animal, coupled with an equal birth rate of the two sexes permits a large number of males to be removed with impunity from the herd, while, as with other animals, any similar abstraction of females checks or lessens the herd's increase, or, when carried further, brings about an actual diminution of the herd. It is equally plain that a certain number of females may be killed without involving the actual diminution of the herd, if the number killed do not exceed the annual increment of the breeding herd, taking into consideration the annual losses , by death through old age and through incidents at sea.

14. While whether from a consideration of the birth rate or from an inspection of the visible effects, it is manifest that the take of females in recent years has been so far in excess of the natural increment as to lead to a reduction of the herd in the degree related above, yet the ratio of the pelagic catch of one year to that of the following has fallen off more rapidly than the ratio of the breeding herd of one year to the breeding herd of the next.+

15. In this greater reduction of the pelagic catch, compared with the gradual decrease of the herd, there is a tendency toward equilibrium, or a stage at which the numbers of the breeding herd would neither increase nor decrease. In considering the probable size of the herd in the immediate future, there remains to be estimated the additional factor of decline resulting from reductions in

the number of surviving pups caused by the larger pelagic catch of 1894 and 1895.

16. The diminution of the herd is yet far from a stage which involves or threatens the actual extermination of the species, so long as it is protected in its haunts on land. It is not possible during the continuance of the conservative methods at present in force upon the islands, with the further safeguard of the protected zone at sea, that any pelagic killing should accomplish this final end. There is evidence, however, that in its present condition the herd yields an inconsiderable return either to the lessees of the islands or to the owners of the pelagic fleet.

> D'ARCY WENTWORTH THOMPSON, JAMES MELVILLE MACOUN, CHARLES SUMNER HAMLIN, DAVID STARR JORDAN.

[†] The catch of the pelagic fleet, Canadian and American, in 1897 in Bering Sea, was 16,667 seals. In the summer of 1896 it was 29,500. The aggregate catch which directly influenced the herd of 1897 was 38,922, a number made up by adding to the summer's catch of 1896 the north-west coast catch in the spring of 1897. Up to the present time, accordingly, the pelagic catch already taken (16,657) and operating directly against next year's supply is 57.22 per cent less than the pelagic catch which operated against the supply of 1897 (see, also, Appendix I); or, if compare merely the summer catches, inasmuch as the possible spring catch of 1898 is an unknown factor, we have a reduction of 43.46 per cent.

APPENDIX I. Statistics regarding land and sea killing, 1871-1897.

Year.	Date quota filled. (a.)	Hauling grounds driven. (a.)	Number of drives. (a.)	Killed on land. (b.)	Killed at sea.
	25, 24, 17, 16. Aug. 1 (c.) July 14, 18, 16, 17, 20, 20, 19, 21, 27, 26, 24, 27, 31, 20 (d.) Aug. 4, July 27, 27, 27, 27, 27, 27, 27, 27, 27, 27,	78 99 86 81 101 106 117 101 102 110 87 (e.) (e.)	43 30 37 41 37 30 32 35 36 38 34 36 39 42 63 74 66 73 74 66 (e.) (e.)	102,960 108,819 109,177 110,585 106,460 94,657 84,310 109,323 110,411 105,763 99,812 79,509 105,434 105,024 104,521 105,760 103,304 102,617 28,059 12,040 7,511 7,396 16,270 14,846 28,964 20,890	16,911 5,336 5,229 5,873 5,033 5,515 5,210 5,544 8,557 8,418 10,382 15,551 16,557 16,971 23,040 28,494 30,628 26,189 29,858 40,814 59,568 46,642 30,812 61,838 56,291 43,917 (f.) 25,079

(a.) These figures refers to the hauling grounds of St. Paul.
(b.) These totals include all males killed for any purpose on the islands.
(c.) In 1876 the killing was begun at an unsual date, said to be on account of an exceptionally late season.
(d.) Closed by order of the agent in charge.
(e.) Years of the modus vivendi.
(f.) As reported to date,

APPENDIX II.

Record of arrival of cows*.

Date.	Cows present.	Date.	Cows present
$Amphitheatre\ of\ Kitovi.$		Record of harems—Continued.	
une 12	0	July 13	
13	0	25	
14	2		
15	3	Lukanin rookery.	
16 17	4	June 12	
18	6	13	
19	. 7	14	
20	8	15	
21	9	16	
2223	. 23 . 37	17	
24	45	19	
25	56	20,	
26	76	21	
27 28	105 137	22	,
29	168	23 24	
30,	210	25	j
aly 1	246	26	6
2	290	27	2
3 4	362 414	28	
5	499	30	
6	518	July 1	
7	550	2	8
8	585 †587	3	9
9	660	5	1,0 1,1
11	703	6	1,2
12		7	1,3
13	654	8,,,	1,5
14 15	556 703	9	. +1,5
16	678	11	1,6 $1,7$
17	698	12	
10	566	13	1,7
19 20	556 429	15	1,8
21	528	14.‡. 15.	3
22	416	16	3
20	469	17	3
24	465	18	2
	426 463	19	$\frac{2}{2}$
27	406	20	$\overset{\scriptscriptstyle Z}{2}$
28	304	22	2
29	414	23	2
30	427	$egin{array}{cccccccccccccccccccccccccccccccccccc$	1:
31	375	25. 26	1
Record of harems.		27	î
		28	1
me 14	1	29	14
30	3 10	30	1:
dy 8	35	31	1.

^{*} Weather clear; no storms or surf—except one day when rain fell, causing a larger number of cows to take to the water and making it difficult to distinguish those present from the rocks.

† Rain.

‡ After July 14, it became impossible, on account of the scattering of the cows, to continue the count for the entire rockery without too great loss of time, and so a section of 18 harems was singled out and the count continued on it.

Immediately following the finding of the experts, a meeting of the diplomatic and executive representatives of the three governments took place to discuss the broader question of executive action in connection with the Behring Sea seal question, together with the possible adjustment of certain other important questions pending between Canada and the United States in connection with fisheries, reciprocal immigration, commercial reciprocity, etc.

This meeting concluded without any definite result in the direction of immediate action, and although the proceedings were not made public, the propositions as submitted by the representatives on the part of the United States were published in

the press in the following form :-

At a conference, November 16th, with Sir Wilfrid Laurier, Sir Louis Davies and Mr. Adam, of

the British Embassy, Mr. Foster (for the United States) proposed:

That the governments of Great Britain and the United States agree at once to a modus rivendi providing for a complete suspension of the killing of seals in all the waters of the Pacific Ocean and Behring Sea, for one year from December 31, 1897, and for suspension of all killing of

seals on the Pribylov Islands for the same period.

Second. That the British Ambassador and one or more representatives of the Canadian government, on the one part, and such representative or representatives as may be designated by the President of the United States, on the other part, shall, with as little delay as possible, take up for consideration, with a view to settlement by means of treaty stipulations, the fur-seal question, the protection of fish in the waters of rivers and lakes contiguous to the United States and Canada, the subject of reciprocal emigration, commercial reciprocity, or any other unsettled question between the United States and Canada, which either of the governments may see proper to bring forward.

On the return of the Canadian representatives certain correspondence was exchanged between them and the United States negotiators, the principal communications have just been published in an executive document of the United States government, and may be included in this connection:

Sir Wilfrid Laurier to Mr. Foster.

PRIVY COUNCIL, CANADA, OTTAWA, 24th November, 1897.

DEAR MR. FOSTER,-Your memorandum embracing the substance of proposals made by you at a conference held between you and myself, Sir Louis Davies and Mr. Adam of the British embassy,

has been submitted by me since my return to Ottawa to my colleagues.

Your second proposition practically embodies the suggestions made by myself and my colleagues, and meets, I need hardly say, with the full approval of the Canadian government. Though the regulations prepared by the Paris tribunal for the killing of seals in Behring Sea and in the Pacific Ocean have been made revisable only at the end of five years, we are quite willing to enter at once and without waiting for the end of the period thus fixed, into an agreement to review the whole question for the object of settling by treaty stipulations, not that question alone but all others in which at present the relations between the two countries are not as satisfactory as they ought to be, viz: "The protection of fish in the waters of rivers and lakes contiguous to the United States and Canada, the subject of reciprocal immigration, commercial reciprocity, of any other unsettled question between the United States and Canada which either government may see proper to bring

This proposition, however, is made by you contingent upon and subject to the condition contained in the first: "That the governments of Great Britain and the United States agree at once to a 'modus vivendi' providing for complete suspension of the killing of seals in all the waters of the Pacific Ocean and Behring Sea for one year from December, 1897, and for a suspension of all killing of seals on the Pribyloff Islands for the same period.

There are difficulties in agreeing to that proposition, which I fear will be found insuperable. Immediately on my return I requested my colleague, Sir Louis Davies, to obtain information as to the number of sealers who are fitting out for the coming year's operations and as to the approximate compensation it would be expected to be paid to them in case pelagic sealing was prohibited for a year.

The information furnished me is to the effect that the fleet is preparing as usual, that the prohibition of pelagic sealing for a year would practically destroy the business for several years, because the masters, the mates and white crews for the larger part, belonging to other parts of Canada would leave British Columbia. The sum which would likely be demanded as compensation is far beyond what it would be possible for us to induce parliament to vote even if we could recommend it.

Under these circumstances, and in view of the finding of the experts at the late conference, that in the greater reduction of the pelagic catch of late years, compared with the gradual decrease of the herd, there is a tendency towards equilibrium, or a stage at which the numbers of the breeding herd would neither increase nor decrease, and further that 'the diminution of the herd is yet far from a stage which involves or threatens the actual extermination of the species so long as it is protected in

its haunts on land.' I am in hopes that you will agree to the proposition submitted at our verbal conference by Sir Louis Davies and myself and not press for the immediate suspension of pelagic sealing. The coast catch during the months of January, February, March and April, as gauged by the catches of the past few years, is very small. Last year the catch of the Canadian sealing fleet amounted only to six thousand one hundred, and in the year before, to eight thousand three hundred and fifty. If the fleet, therefore, are permitted to prosecute pelagic sealing for these four months, but little comparative harm would be done to the herd. Following these months is the close season, embracing May, June and July, during which, of course, no pelagic sealing can be carried on except on the Asiatic coast. It appears to me, therefore, highly probable that the joint commission suggested could finally conclude its labours long before the time when, under the Paris regulations pelagic sealing could begin in Behring Sea.

If that commission reached a satisfactory conclusion, and the Congress of the United States approved of it, there would be no difficulty in obtaining the necessary imperial legislation to carry out whatever recommendations might be agreed to which respect to the suspension or cessation of

pelagic sealing in time to prevent the prosecution of the business in Behring Sea next year.

It is obvious, however, that any conclusion which might be reached by the joint commission must, to be effective, be ratified by Congress as well as by imperial legislation, and unless the session of Congress which opens in the coming month of December and closes, I understand, about the 4th of March, ratifies any treaty which might be agreed to before its termination, it would necessarily

lie over for another year.

This would involve the renewal of the suspension for a second year, with a further claim for com-This would involve the renewal of the suspension for a second year, with a further claim for compensation on the part of the sealers. I would also more strongly urge upon you the view here presented, because pelagic sealing being at present a legitimate business carried on under the sanction of the Paris regulations cannot be stopped until the imperial parliament has enacted the necessary legislation prohibiting it, and as that parliament will not meet until early in February next it seems obvious that such legislation could not be hoped for until, at any rate, late in the month of February. At that date, the result of the labours of the joint commission, if it was constituted at an early day, would be known and could be submitted for approval at the coming session of Congress.

Under all these circumstances, therefore, we do not see how it is possible to agree to the suggested suspension, but we see no reason to doubt, if the appointment of a joint a commission results in the submission of a treaty which Congress would ratify, the necessary imperial legislation could be procured in time to carry out its recommendations will regard to Behring Sea sealing before the

close season ends and pelagic sealing begins and so attain the object you have in view.

Yours respectfully,

WILFRID LAURIER.

Mr. Foster to Sir Wilfrid Laurier.

Department of State, Washington, December 2, 1897.

Dear Sir Wilfrid,—I received, on the 30th ultimo, through the British embassy, your letter of the 24th ult., in which you kindly communicate your answer to the proposition which I submitted in the conference which I had the pleasure to hold with you, your colleague and Mr. Adam, of the British embassy, on the 16th ultimo.

Your answer is in effect a declination of my proposition, and a renewal of the proposal made in the conference by Sir Louis Davies, and which at the time I stated my government could not accept.

The considerations in support of your colleague's proposal, re-stated by you, have been submitted to the President, and he directs me to express his regret that they are not of such a nature as to

justify him in reversing the position taken by me in our conference.

You intimate that if pelagic sealing is continued during the earlier months of the year the catch would not exceed 6,000, which you think would do little harm to the herd. This might be the case if it were in its normal condition, but such a catch now would be approximately equal to 30,000 in normal times, and in its present depleted condition would create a serious inroad on the herd. The state of "equilibrium" contemplated by the experts to which you refer was at a still more depleted stage than even now exists. It is admitted that the industry is at present unprofitable for both the lessees and the pelagic sealers. Should the herd reach the "equilibrium" pointed out by you it will have passed the period when negotiations will be of any avail.

But in addition to the injury that a continuance of early pelagic sealing will do to the herd, it will also entail on the United States the heavy expense of patrol during the entire summer, even though a settlement should be reached, as you think possible, before August, as the Victoria fleet will be at sea, an expense which for the past four years has averaged about \$150,000 annually.

As to your statement that the imperial parliament will not convene till February, we should be quite willing to have the proposed suspension of sealing take effect at such a date in February as would enable the necessary legislation to be passed provided a modus vivendi could be signed at once. Such an arrangement, would, it is believed, obviate the general difficulty to which you refer.

There is no disposition on our part to embarrass the Dominion government by asking impossible or unreasonable conditions. This is the more apparent when I recall the fact that four years ago when the Paris tribunal rendered its award, that body, in view of the critical condition to which the herd was then reduced, recommended the two governments to suspend the killing of seals for a period of two or three years. If such a measure was called for then, how much more reasonable is the request for a single season's suspension now, after four more years of disastrous slaughter of female seals during which period the experts agree the herd has steadily declined.

Your frank courteous letter reveals the fact, to which I had occasion to refer during your recent friendly visit to this city and which constitutes a serious obstacle to our negotiations. to have failed to impress upon the Canadian government, past or present, our view that pelagic sealing ought to be voluntarily given up because it is unneighbourly in that it is destroying a valuable industry of our government, and inhumane because it is exterminating a noble race of animals useful to the world. We paid Russia a large sum for Alaska and the chief prospective return then visible was the seal industry, which had yielded the Russian government and subjects large profit. We enjoyed the industry undisturbed for about fifteen years reaping a rich return to the government and the lessees, the estimated revenue to the federal treasury up to 1891 being over \$11,000,000, a sum much larger than was paid to Russia for the entire territory. Suddenly the pelagic sealers entered upon the work of destruction and they have brought the industry to the point when it is no longer profitable. This work of destruction has been prosecuted as a conceded legal avocation, and when we have called attention to the rapid dimunition of the herd and the treaty obligation to protect and preserve it we have been met by the declaration that its actual extermina-tion is not immediately threatened. When it is proposed to negotiate for the surrender of the legal right of pelagic sealing we are told that this cannot be brought about by a fair compensation to those engaged in the industry, but that the question must be included with a number of other subjects having no relation to it whatever and that it must await the fate of all these matters, some of which, as commercial reciprocity and the tariff, are very complex in their character, and others, as the north eastern sea fisheries, of long standing and very difficult of adjustment.

Notwithstanding the President feels that the subject of the proper protection of the seals should not be complicated with other questions of intricate public policy and conflicting interests, in his earnest desire to promote a more friendly state of relations between the two neighboring countries, he has consented that all those questions should be embraced in one series of negotiations if meanwhile a modus vivendi could be agreed upon which would save the seals from destruction while the

negotiations were in progress.

You have been misinformed as to the duration of coming congress and it will continue beyond the fourth of March next without constitutional limitation. But it could hardly be anticipated that the subjects which you desire to have considered would be adjusted by treaty stipulations and the necessary resulting legislation enacted, with the despatch indicated in your letter, even with the most friendly spirit of conciliation. The variety of questions to be considered and the interests to be consulted would compel deliberation in the negotiations and might create discussion before legislation could be secured.

I have explained at some length the reasons which control the President in adhering to the position which, under his instructions, I assumed during our informal conference because of my earnest wish to have you understand that we are greatly desirous of bringing about a better understanding with your government. I am extremely sorry and greatly disappointed that your visit to Washington gives so little promise of satisfactory results, but I entertain the hope that it may yet

bear good fruits.

I remain, etc., Yours very truly, JOHN W. FOSTER.

DIPLOMATIC CORRESPONDENCE.

During the year, considerable diplomatic correspondence occurred between Her Majesty's government and that of the United States, the two most important communications being that from the United States Secretary of State Sherman to the Ambassador at the Court of St. James, dated 10th May, and the reply thereto from the Foreign Office to the Colonial Office, dated 26th July, 1897.

These communications appear in the Papers presented to the Imperial Houses of Parliament in September, 1897, United States, No. 4, 1897 (C. 8662), and for

convenience and general information are here reproduced:-

Mr. Sherman to Mr. Hay .- (Communicated by Mr. Hay, May 22.)

DEPARTMENT OF STATE, WASHINGTON, May 10, 1897.

SIR,—The British Ambassador called upon me on the 3rd instant and handed me a copy of a despatch to him from Her Majesty's Principal Secretary of State for Foreign Affairs, bearing date the 21st ultimo. This despatch constitutes the reply of the British Government to the proposals of the President, as presented in the note of your Embassy of the 10th ultimo, for a modus vivendi for the suspension of all killing of seals for the present season, and for a joint Conference of the Powers concerned with a view to the necessary measures being adopted for the preservation of the fur-seal in the North Pacific. It will be seen that both proposals are rejected.

I need hardly say that the President is greatly disappointed at this action, especially when it is based upon such unsubstantial and inadequate reasons. The President's concern, in view of the depleted condition of the seal herd, was occasioned not alone from an examination of Dr. Jordan's Report of 1896 and what he had reason to suppose were the conclusions of Professor Thompson, but it was based upon a series of observations and statistics covering a much longer period than that treated by those gentlemen, establishing a state of facts beyond refutation, and which is in part set forth in my note to the British Ambassador of the same date as my cablegram to you. It is therefore quite surprising that Her Majesty's Secretary should base his rejection of the proposals of this Government, so impressively presented, upon the Report of one scientist whose facts and conclusions are incorrectly apprehended and the delayed Report of another, which is for the first time made public

concurrently with the receipt of his Lordship's note.

It would have been gratifying to me and useful to my Government, in studying the important subject under consideration, if Professor Thompson's Report could have been made public with the promptness which marked the appearance of that of Dr. Jordan. In that case there would have been ample time for both Governments to have examined the Reports of these two eminent scentists before the opening of another sealing season. But it seems to have better suited the purposes of Her Majesty's Government to withhold Professor Thompson's Report until an opportunity was afforded to examine that of Dr. Jordan, and thus enable the former to pass the latter in review, criticize its statements, and as far as possible minimize its conclusions. It is not pleasant to have to state that the impartial character which it has been the custom to attribute to the reports of naturalists of high standing has been greatly impaired by the apparent subjection of this Report to the political exigencies of the situation. It is further to be regretted that the Report was so long delayed that no opportunity was afforded this Government to examine it before the definite and final rejection of the President's proposals, based mainly upon its conclusions, was communicated to me. conduct recalls the incident which preceded the Arbitration at Paris, and which came near rendering that Arbitration abortive, when a similar Report of a British Commission was withheld until after the Case of each Government was exchanged and the Report of the American Commission made public.

Lord Salisbury asserts that Dr. Jordan's Report does not contain any facts warranting the statement that there is a "depleted condition and prospective early extinction of the herd." The note of your Embassy of the 10th ultimo does not attribute such a statement to Dr. Jordan, but it is difficult to understand how any one can read his Report without reaching the conclusion that such is the real condition of the herd. On p. 18 he says: "From this time (1886) on the decline has been more rapid and has been continuous." On p. 21 he clearly recognizes diminution, as evidenced by photographs, as also by decrease of harems. On p. 66 he uses this expression: "As the herd is steadily diminishing the spring or north-west catch is becoming relatively unimportant." Other citations might be made, but it would seem unnecessary in view of his declarations, often repeated in his Report, respecting pelagic sealing, from which I give only one extract (p. 29): "Pelagic sealing, in the judgment of the members of the present Commission, has been the sole cause of the continued decline of the fur-seal herds. It is at present the sole obstacle to their restoration, and the sole limit of their indefinite increase. It is therefore evident that no settlement of the fur-seal question as regards either the American or Russian islands can be permanent unless it shall provide for the cessation of the indiscriminate killing of fur-seals, both on the sealing grounds and on their migrations. There can be no 'open season' for the killing of females if the herd is to be kept intact.

Professor Thompson's Report is plainly written with a view to minimize as far as possible the depleted condition of the herd on the Pribyloff Islands, and requires a critical examination not possible within the limits of the present instruction, but its general purport may be briefly stated. It is to be regretted that he should have contracted his study far within the purview of his instructions. In the outset of his Report he says: "The main object of my mission was the collection of information and statistics with regard to the working and effectiveness of the Regulations" of the Paris Tribunal. But we look in vain in his Report for any discussion of that all-important subject. He confined his inquiry and Report to the subordinate subject of the number of seals resorting to the islands, and particularly to the relative numbers in 1895 and 1896. The result of his observations and inquiry seemed to be that on some rookeries there was an increase and on others a decrease, but on the whole a possible state of equilibrium for the past two years, although he concedes a diminution as compared with 1892. If all the Professor claims is admitted, it does not militate against the contention that since pelagic sealing became general the decline of the herd has been steady and rapid. The apparent equilibrium noted in his Report is well explained by Dr. Jordan when he says (p. 18): "There is evidence that the *modus vivendi* of 1892-93, by which Behring Sea was closed to the sealing fleet, has produced for 1895 and 1896 a slight check of the diminution," The reason for this is sealing fleet, has produced for 1895 and 1896 a slight check of the diminution, that, in addition to the saving of mothers, no pups were starved to death in 1892 and 1893, and those which might have been starved have returned as breeders or as killable seals in 1895 and 1896." Since the receipt of Lord Salisbury's despatch explicit inquiry has been made of Dr. Jordan as to the relative condition of the herd in 1895 and 1896 and in previous years, and he has furnished the chapter on the "Decline of the Herd" from the forthcoming Final Report of himself and associates, from which the following extract is taken: "While the amount of the decline cannot be stated with mathematical exactness, it is possible from the data at hand to make an approximate estimate. From a careful study of all the conditions, in our opinion the fur-seal herd of the Pribyloff Islands

has decreased to about one-fifth its size in 1872-74; to somewhat less than one-half its size in 1890, and that between the seasons of 1895 and 1896 there has been a decrease of about 10 per cent.

Although Professor Thompson has been very careful throughout the Report to say nothing Although Professor Thompson has seen very careful throughout the Report to say nothing likely to embarrass his Government, in the "conclusions" the voice of the true scientific investigator speaks in firm and certain tones. While he regards "the alarming statements...... of the herd's immense decrease" as overdrawn, he says "there is still abundant need for care and for prudent measures of conservation in the interest of all........ It is not difficult to believe that the margin of safety is a narrow one, if it be not already in some measure overstepped. We may hope for a perpetuation of the present numbers, we cannot count upon an increase. And it is my earnest hope that a recognition of mutual interests and a regard for the common advantage may suggest measures of prudence which shall keep the pursuit and slaughter of the animal within due and definite bounds. In view of such explicit language it is not easy to understand how Lord Salisbury can reconcile his refusal to entertain the proposals of the President with the interests of his own countrymen, to say nothing of the friendly relations which he desires to maintain with the United States, Russia, and

The experience had with the scientific Commissions of 1892, as well as the Reports of 1896 just under review, shows that it is difficult through them to reach a harmony of views; but we have at hand certain statistics of undisputed authority pointing unmistakably to conclusions which should

The operations of the pelagic fleet in Behring Sea since the Paris Regulations have been in force are as follows :-

1894-37 vessels, 31,585 seals taken, or an average of 853 per vessel. 1895—59 vessels, 44,169 seals taken, or an average of 748 per vessel.

1896—67 vessels, 29,500 seals taken, or an average of 440 per vessel. It thus appears that nearly double the number of vessels in 1896 were not able to take as many seals as were taken in 1894, and the catch per vessel fell off nearly one-half. Lord Salisbury attributes this large falling-off in Behring Sea "to the stormy weather prevailing," but does not cite his authority. I am not aware of any published report to that effect. Captain Hooper, who commanded the American cruising fleet in Behring Sea in 1895 and 1896, reports: "The weather in Behring Sea was not materially different in the past two years. Conditions admitted of boarding operations by the fleet twenty-five days in 1895 and twenty-four days in 1896." An examination and comparison of the logs of sealing-vessels for 1895 an 1896 confirm Captain Hooper's report. The above figures, with the statistics contained in my note of the 9th ultimo to the British Ambassador, make it very clear that the seal herd is becoming rapidly depleted, and that "the margin of safety," as Professor Thompson expresses it, has been "already overstepped." It is to be inferred that "the margin of safety" is intended to signify the point at which pelagic scaling ceases to be profitable. He cannot have had in mind biological extermination, for that point could not have been reached so long as a single bull and harem existed. The point when sealing ceased to be profitable seems to have been reached during last year. A Table appended to his Report shows that the tot el product of the pelagic catch of 1896 in the London market was about half the amount of that of al895, and Lord Salisbury informs us that this result has "brought many owners of the sealing-ves sels to the verge of bankruptcy." It thus appears that the condition of things predicted by the Government of the United States, as quoted below, has already come to pass—the commercial extermination of the seals. If pelagic sealing continues to be tolerated a limited number of vessels will carry on the indiscriminate slaughter, in the hope, by a favourable cruise, of recouping the losses of the previous year, and the rookeries on the islands will be still further depleted. But the biological existence of the fur-seal may still be continued, and Her Majesty's Ambassador may repeat the declaration, so often made during the past two years, that there is "no reason to fear that the seal herd is threatened with early extermination.

In this connection it may not be unprofitable to recall the action of the two Governments respecing the efforts made to revise the Regulations adopted at Paris. The expressed object of the Paris Arbitration was "the perservation of the fur-seals," and the Regulations adopted by the Tribunal were framed with a view to "the proper protection and perservation of the fur-seal.....resorting to Behring Sea." On the 23rd January, 1895, Secretary Gresham addressed a note to the British Ambassador, stating that the first year's experience had "convinced the President that the Regulations enacted by the Paris Tribunal have not operated to protect the seal herd from the destruction which they were designed to prevent," and he asked that a Commission of scientists and experts be appointed by the Governments of the United States, Great Britain, Russia, and Japan to report upon the proper measures to be adopted, and pending the deliberations of the Governments a modus rivendi be agreed upon suspending sealing in Behring Sea. Nearly four months elapsed without an answer from the British Government, when, on the 14th (? 10) May, 1895, a second note was sent, reiterating the President's solicitude, urging a reply, and predicting that unless some further restrictions were adopted the seals would "be exterminated for all commercial purposes within a very few years." On the 27th May, the British answer was received, in which it was complacently stated "that the condition of affairs is not of so urgent a character as the President has been led to believe," and that there was no "such urgent danger of total extinction of the seals as to call for a departure from the

arbitral Award by which the two nations have solemnly bound themselves to abide."

Secretary Olney, 24th June, 1895, by direction of the President, renewed the proposition in different terms, but the British Government repeated its declination to make "any extension of the Regulations solemnly laid down by an International Board of Arbitration.

After a second year's experience of the Regulations, Secretary Olney, 11th March, 1896, called the attention of the British Ambassador to the catch of 1895 in Behring Sea (the largest ever made in that sea), and expressed the hope that the British Government would realize "the absolute necessity of consenting for the coming season to some further Regulation to the end that the valuable herd be saved from total extinction." On the 27th April, Sir Julian Pauncefote replied that Her Majesty's Government saw no reason to believe the catch in Behring Sea was "so large as to threaten early extermination," and that there was no "necessity for the immediate imposition of increased restrictions."

This correspondence is recalled to show that, from the first year the Paris Regulations were put in force, each succeeding President and Secretary of State has been firmly convinced that they were inadequate for the purpose for which they were adopted, and that the British Government has just as firmly resisted all overtures for even a conference of the Governments concerned for the purpose of considering whether further Regulations were required to protect the seals, and has rested its refusal upon "the Arbitral Award by which the two nations have solemnly bound themselves to

In view of this attitude of the British Government, I deem it opportune to make an examination (even at the risk of being somewhat tedious) into the manner in which it has responded to the action of the Paris Tribunal, and to what extent and in what spirit it has observed the decision and

recommendations of that Tribunal.

A perusal of the Protocols of that Tribunal will show that the preparation of the Regulations was intrusted to three Arbitrators nominated by the neutral Governments, and when their unanimous Report was presented it was provided in Article II that the Regulations should be applied to all the waters of the Pacific Ocean and Behring Sea north of the 35th degree of north latitude, thereby including all the waters east of Japanese and Russian territory. Lord Hannen, the British Arbitrator, objected to this provision, and moved an amendment limiting the area to all that part of the ocean and sea east of the 180th meridian. Baron Courcel, President of the Tribunal, stated on behalf the neutral Arbitrators that, in framing Article II, "they had acted out of regard for Russia and Japan, Powers not represented before the Tribunal of Arbitration, and towards the waters of whom it appeared not equitable to drive back the English and American pelagic sealers during the whole time of the close season." But he acquiesced in Lord Hannen's amendment, and it was adopted. (Protocol LIV.) It is plain from the proceedings that the Tribunal regarded the extension of the Regulations to the Asiatic waters as a matter of justice to Russia and Japan, and they would have been so extended if those Powers had been parties to the Arbitration.

When, in accordance with Article VII of the Treaty of 1892, the Russian and Japanese Governments were approached with a view to securing their adhesion to the Regulations, they both replied they could only do so on their extension to the Asiatic waters. Secretary Gresham reports that as early as October, 1893, he verbally brought this attitude of the subject to the attention of the British Ambassador, who recognized the force of the position assumed, and said the situation seemed to suggest the propriety of a Treaty between the four Powers "for the preservation, for their common benefit, of the fur-seals between the two continents and north of the 35th degree of north latitude."

Mr. Bayard was instructed, 27th October and 20th November, 1893, to seek to bring about

such an arrangement or Treaty; 23rd January, 1894, Mr. Gresham brought the subject to the attention of the British Ambassador, and on the 2nd May, no answer being received, the proposition was again urged. Secretary Olney brought the subject again to the attention of the British Government in a note dated the 24th June, 1895, the proposition being presented in a new form; and on the 19th

August a general negative reply was made to Mr. Olney's note.

Under date of the 2nd April, 1896, Secretary Olney informed Mr. Bayard that the Russian Government was about to initiate negotiations at London for the extension of the Paris Regulations over the Asiatic waters, and at the request of the Government Mr. Bayard was instructed to cooperate in such negociations. Mr. Bayard at once put himself in communication with the Russian Ambassador, but on the 14th May he was informed by Lord Salisbury that Her Majesty's Government had decided to dispatch a naturalist to the Russian seal islands, and that, pending the receipt of his Report, his Government would not enter upon negotiations. The British Naturalist returned to London in October, 1896, but up to this date, His Lordship has given nor indications of a desire or intention to upon the negociations. In fact, the despatch to which I now reply rejects the proposition of the President for a similar Conference or negociation. The effect of Lord Hannen's amendment of Article II of the Regulations has been to bring about the state of affairs which the neutral Arbitrators desired to avoid-to wit, to transfer the sealing vessels to the Asiatic waters during the closed season in the American waters, which they expected would be prevented by negotiations between the interested Governments. Such negotiations Great Britain has steadily omitted and declined to enter upon.

Again, the Arbitrators appended to their decision or Award a series of declarations, not binding upon the contracting Governments, but which were recommended for their adoption. The American Arbitrators at once accepted the declarations, but Lord Hannen hesitated to accept the second para-

graph, which is as follows :-

"In view of the critical condition to which it appears certain that the race of fur-seals is now reduced in consequence of circumstances not fully known, the Arbitrators think fit to recommend both Governments to come to an understanding in order to prohibit any killing of fur-seals, either on land or sea, for a period of two or three years, or at least one year, subject to such exceptions as the two Governments might think proper to admit of.

"Such a measure might be recurred to at occasional intervals if found beneficial."

Lord Hannen declared that, "although approving the spirit in which it (the second paragraph) is conceived, and although regarding as very desirable that the destruction of the fur-seals might be entirely suspended during a certain period of time, so as to enable nature to retrieve the losses which this race of animals has undergone, he does not feel authorized by the terms of his mandate to express an opinion on the subject;" and the Canadian Arbitrator concurred with his British colleague.

(Protocol LIV).

Immediately after the receipt of the official copy of the Award and declarations, the 12th September, 1893, Secretary Gresham cabled instructions to Mr. Bayard to ask the concurrence of Great Britain in the enforcement of the second declaration. Mr. Bayard reported, the 13th September, that he had made known his instructions to the British Government. No answer having been received on this point, Secretary Gresham repeated the offer to Sir Julian Pauncefote, the 24th January, 1894. I do not find that response to this proposition was ever made. The wisdom of the recommendation is abundantly proved by the experience of the past three years, and it strongly supports the repeated applications which have been made by the Government of the United States for a modus suspending all killing of the seals until a Conference could be had to readjust the Paris Regulations.

The indifference with which the British Government treated the repeated appeals of this Government for prompt action towards the adoption of measures to enforce the Regulations "solemnly laid down by an International Board of Arbitration," illustrates the measure of respect entertained for that august Tribunal. On the 12th September, 1893, within a month after the Award had been rendered, Secretary Gresham instructed Mr. Bayard by cable (cited above) to inform the British Government of the desire of the Government of the United States to take up without delay the subject of the enforcement of the Regulations, so as to make them effective before the next sealing This notice was given to the British Foreign Office on the 13th September, more than three months before the opening of the sealing season. No progress having been made, the 17th November, Secretary Gresham cabled Mr. Bayard that the President was anxious that an agreement of this subject should speedily be reached. On the 4th December, Secretary Gresham consented, at the desire of the British Government, that the negotiations might be transferred to Washington, but he gave notice to Lord Rosebery that "the rapidly shortening interval before the next season will commence admonishes both Governments to expedite the negotiations." On the 24th January, 1894, the Secretary addressed an urgent note to the British Ambassador, complaining that nothing had yet been accomplished, and the time lost had brought them "to the opening of another sealing season without any definite steps having been taken for the execution of the Paris Award." A month later, the 22nd February, the Sccretary cabled Mr. Bayard that, in answer to his repeated inquiries, the British Ambassador informed him he was still without instructions, and he was directed to say "this long delay is difficult to understand, and it is the President's desire that you represent the matter impressively to Her Majesty's Government. On the 17th March Secretary Gresham sent another urgent cablegram to Mr. Bayard, complaining of still further delay, for which "this Government is not responsible," and which was threatening to "become embarrassing for both Governments." The negotiations were not entered upon until six months after they were invited by the United States; the British Act (the 23rd April, 1894) to enforce the Regulations was not passed until four months after the sealing season had opened, and the final Order in Council (the 27th June, 1894) on the subject was not issued until six months after the sealing fleet had put to sea in disregard of the Award of the Tribunal.

The manner in which the British Government has discharged its police duties under the Award is in marked contrast with its appeal for a strict observance of the five years period of the Regulations. An equal obligation rests upon each Government to patrol the waters embraced in the Award area, in order to see that the Regulations are not violated by the sealing-vessels. In 1894, the Government of the United States furnished twelve vessels for the patrolling fleet at great expense, and only one vessel was furnished by the British Government. In 1895, five United States vessels patrolled the Award area and only two British vessels, one for a short time only in Behring Sea, and the other took no part whatever in the patrol, as its presence was almost constantly required in Unalaska Harbour to take over the British sealing-vessels seized in Behring Sea. Owing to the repeated complaints of the Government of the United States as to the inadequacy of the British patrol, an additional cruiser was ordered into Behring Sea during the season of 1896, although it was stated by the British Government that, "so far as they have been able to judge, the force employed up to the present time has been sufficient." As it is show that practically no patrol service had been rendered in Behring Sea by the British cruisers during the previous year, the inference from this language would seem to be that Her Majesty's Government understood that the American cruisers only were to perform the patrol duty, and the British cruisers to take over and act upon the validity of seizure

of British vessels.

The detailed enforcement of the Regulations has further developed on the part of the British Government a strange misconception of the true spirit and intent of the Arbitrators. Under Article 6 of the Regulations the use of fire-arms in Behring Sea was prohibited, and to enforce that prohibition it was agreed between the two Governments for the year 1894 that sealing-vessels might have their arms and ammunition placed under seal. But on the 11th May, 1895, although this Government had every reason to believe from the Order in Council that the British Government had given its concurrence to the arrangement, the British Ambassador gave notice that his Government would not renew the arrangement as to the sealing of arms for the coming season, and defended its action on the ground that the possession of arms, &c., by a sealing vessel was "not forbidden by the Award Regulations."

This tardy action of the British Government in refusing to renew the arrangement of 1894 led to much trouble and inconvenience in connection with the patrol of Behring Sea. The British Government made grievous complaint against the severe measures of search resorted to by the American cruisers, which gave rise to a lengthy correspondence. On the 2nd July, 1896, Secretary Olney submitted a proposition to put an end to the controversy by an examination of vessels entering Behring Sea, and an inspection by a Representative of the United States at British Columbian ports of all skins taken in Behring Sea, to discover whether or not fire-arms were used; but this proposition was not accepted. A further attempt was made by Secretary Olney to procure some agreement for the season of 1897, when it was urged that American vessels frequenting Behring Sea were required to have their arms sealed, and on returning to their home ports their skins were carefully inspected, while Her Majesty's Government refuses to enforce the provision as to arms, and declines the inspection of skins—measures which this Government regards as "absolutely essential for preventing the unlawful destruction of the seals." Nevertheless, another season has been entered upon without any settlement of this vexed question.

In this connection, I recall the serious defect pointed out in the correspondence, in the British Act for the enforcement of the Regulations. Under the British Act passed to carry out the modus vivendi of 1891, whereby all killing of seals was prohibited in Behring Sea, it was provided that the presumption of guilt would lie against the vessel "having on board fishing or shooting implements or seal skins." A provision of a kindred nature was inserted in the British Act for the enforcement of the Russian modus of 1893. The Act of Congress of 1894 to enforce the Regulations of the Paris Award contained a similar provision; but the British Act of 1894 for the same purpose contained no provision whatever as to presumptive guilt respecting the possession of fire-arms or skins at forbidden times or in forbidden waters. And to emphasize its purpose in the matter, when the British Act to enforce the Russian agreement was re-enacted in 1895, the provisions of the Act of 1893 as to presumptive illegality was omitted. This action of the British Government was made the subject of an earnest protest on the part of my predecessor, but to no purpose. The practical effect is to make it impossible in many cases to convict British sealing vessels, although there may be the strongest presumptive evidence of guilt, evidence which, under the Act of Congress, would in most cases pro-

cure the conviction of an American sealing-vessel.

I shall only cite one further instance of the failure and refusal of the British Government to give full effect to the Paris Regulations. Article 5 provided that the vessels engaged in sealing should enter daily in their official log-books the number and sex of the seals taken and that these entries should be communicated by each Government to the other at the end of each season. This Regulation was prescribed in order to procure reliable statistics as to the proportion of female seals killed, but it was found to be unsatisfactory and imperfect in its practical operation. The catch of American vessels was subjected to an official inspection at the home port, and it was found that they reported a much greater proportion of females seals taken than the British sealers. Although in many instances the British sealers were close to the American sealers, yet the American sealers reported from two to five times as many females as males, a result entirely at variance with the British returns. This state of facts led the Acting Secretary of State, the 10th May, 1895, to request of the British Government their consent to the stationing of United States inspectors at British Columbian ports for the purpose of verifying the log entries of British sealing vessels, with the offer of a reciprocal privilege in American ports to British inspectors. No answer having been received, on the 13th September, and again on the 18th September, the request made in the previous May was renewed. On the 24th of September the British Ambassador replied that the request for inspectors was not acceptable to Her Majesty's Government, "on the ground that the matter is already provided for by the Award Regulations, the sealers bring bound themselves to keep a record of sex.

The measure was regarded by this Government as so important that on the 15th December, 1896, Secretary Olney recalled it to the attention of the British Ambassador, in connection with the sealing of arms. The answer of the British Government to this second application was that "the compulsory examination by experts of skins on landing at British ports would require legislation in Canada," and that the views of the Canadian Government would have to be ascertained. In answer to the inquiry of Secretary Olney on the 23rd January, 1897, as to when the Canadian Government was likely to take action, the Ambassador replied on the 24th March, but Her Majesty's Government were "still in correspondence with the Canadian Government" and that a further communication

would be made as soon as possible. No further communication has been made.

I regret that this statement has become so lengthy, but in view of the fact that the British Government, when pressed for a remedy to well-established defects in the Regulations or the Acts and Rules agreed upon for their enforcement, has appealed to "the Arbitral Award which the two nations have solemnly bound themselves to abide." I have felt the present occasion opportune to make a review of the events which have transpired since that Award was rendered, and to challenge a comparison of the conduct of the two Governments with regard to the final action of the International Tribunal of Arbitration. In no respect has the United States Government failed to observe the exact terms of the Award or to accept its recommendations in their true spirit and full effect, even though the have entailed heavy expense and caused great damage to long-established interests of this nation.

On the other hand, I think I have shown that the British Government has from the beginning and continuously failed to respect the real intent and spirit of the Tribunal or the obligations imposed by it. This is shown by the refusal to extend the Regulations to the Asiatic waters; by the failure to put in operation the recommendations for a suspension of the killing of the seals for three, for two, or even for one year; by the neglect to put the Regulations in force until long after the first sealing had been entered on; by the almost total evasion of the patrol duty; by the opposition to

suitable measures for the enforcement of the prohibition against fire-arms; by the omission to enact legislation necessary to secure conviction of the guilty; and by the refusal to allow or provide for

an inspection of skins in the interest of an honest observance of the Regulations.

The obligations of an international Award, which are equally imposed on both parties to its terms, cannot properly be assumed or laid aside by one of the parties only at its pleasure. Such an Award which in its practical operation is binding only on one party in its obligations and burdens, and to be enjoyed mainly by the other party in its benefits, is an Award which, in the interest of and to be enjoyed manny by the other party in its benents, is an Award which, in the interest of public morality and good conscience, should not be maintained. Having in view the expressed object of the Arbitration at Paris and the declared purpose of the Arbitrators in prescribing the Regulations, when it became apparent, as it did after the first year's operation of them and with increased emphasis each succeeding year, that the Regulations were inadequate for the purpose, it was the plain duty of the British Government to acquiesce in the request of that of the United States for a Conference to determine what further measures were necessary to seemed the outled by Conference to determine what further measures were necessary to secure the end had in view by the

A course so persistently followed for the past three years has practically accomplished the commercial extermination of the fur-seals and brought to nought the patient labours and well-meant conclusions of the Tribunal of Arbitration. Upon Great Britain must therefore rest, in the public conscience of mankind, the responsibility for the embarrassment in the relations of the two nations which must result from such conduct. One of the evil results is already indicated in the growing conviction of our people that the refusal of the British Government to carry out the recommendations of that Tribunal will needlessly sacrifice an important interest of the United States. This is shown by the proposition seriously made in Congress to abandon negotiations and destroy the seals on the islands, as the speedy end to a dangerous controversy, although such a measure has not been entertained by this Department. We have felt assured that as it has been demonstrated that the practice to pelagic sealing, if continued, will not only bring itself to an end, but will work the destruction of a great interest of a friendly nation, Her Majesty's Government would desist from an act so suicidal and so unneighbourly, and which certainly could not command the approval of its own people.

The President therefore cherishes the hope that, even at this late day, the British Government may yet yield to his continued desire, so often expressed, for a Conference of the interested Powers; and, in delivering to Lord Salisbury a copy of this instruction, you will state to him that the President will hail with great satisfaction any indication on the part of Her Majesty's Government of a

disposition to agree upon such a Conference.

Respectfully yours,

JOHN SHERMAN. (Signed.)

Colonial Office to Foreign Office.—(Received July 26.)

DOWNING STREET, JULY 26, 1897.

SIR, -I am directed by Mr. Secretary Chamberlain to acquaint you, for the information of the Marquess of Salisbury, that he has had under his consideration the despatch from Mr. Secretary

Sherman to Mr. Hay respecting the seal fishery.

After an expression of disappointment and surprise at Her Majesty's Government having rejected the proposals made by the Government of the United States, Mr. Sherman proceeds to comment on the delay which occurred in the publication of Professor D'Arcy Thompson's Report.

He says (paragraph 3):

"It would have been gratifying to me and useful to my Government, in studying the important subject under consideration, if Professor Thompson's Report could have been made public with the promptness which marked the appearance of that of Dr. Jordan. In that case there would have been ample time for both Governments to have examined the Reports of these two eminent scientists before the opening of another sealing season. But it seems to have better suited the purposes of Her Majesty's Government to withhold Professor Thompson's Report until an opportunity was afforded to examine that of Dr. Jordan, and thus enable the former to pass the latter in review, criticize its statements, and as far as possible minimize its conclusions. It is not pleasant to have to state that the impartial character which it has been the custom to attribute to the reports of naturalists of high standing has been greatly impaired by the apparent subjection of this Report to the political exigencies of the situation. It is further to be regretted that the Report was so long delayed that no opportunity was afforded this Government to examine it before the definite and final rejection of the President's proposals, based mainly upon its conclusions, was communicated to me. This conduct recalls the incident which preceded the arbitration at Paris, and which came near rendering the arbitration abortive, when a similar Report of a British Commission was withheld until after the case of each Government was exchanged and the Report of the American Commission made public.

Again (paragraph 5):—
"Professor Thompson's Report is plainly written with a view to minimize as far as possible the depleted condition of the herd on the Pribyloff Islands;" and (paragraph 6) "although Professor depleted condition of the herd on the Pribyloff Islands;" and (paragraph 6) "although Professor depleted condition of the herd on the Pribyloff Islands;" Thompson has been very careful throughout the Report to say nothing likely to embarrass his

Government. The reasons for the delay in the preparation and publication of Professor Thompson's Report were given in Lord Salisbury's despatch to Sir J. Pauncefote of the 7th May. Those explanations cannot, however, have been before Mr. Sherman when he permitted the insertion of the above-quoted statements in his despatch, and Mr. Chamberlain would not refer to this point, although so prominently put forward, if he did not feel it necessary for the vindication of Professor Thompson's high character and reputation to declare that the allegations made against him are totally unfounded, and therefore equally unjustifiable. Turning to the practical issues raised in Mr. Sherman's despatch, I am to point out that he is mistaken in assuming that Her Majesty's Government attributed to Dr. Jordan the statement that there is a "depleted condition and prospective early extinction of the herd." The words in question were used in Mr. Sherman's note to which Her Majesty's Government were replying, and they must adhere to their opinion that the statement is not warranted by any facts contained in the Report.

The passages cited from that paper are merely expressions of opinion, and the grounds upon which such opinions are based are not set forth in the report, and the passage on p. 21, where it is asserted, "he clearly recognizes diminution, as evidenced by photographs, as also by decrease of harems," must be read with his statement that "there is no assurance that photographs taken the same date on successive years show the same or relative conditions, as the arrival of the seals, and doubtless their movements on the rookeries, are affected by the state of the weather and the advan-

cement of the season."

The statement quoted from Dr. Jordan's final report with which Her Majesty's Government

have not yet been furnished, is interesting. It says:

"From a careful study of all the conditions, in our opinion the fur-seal herd on the Pribyloff Islands has decreased to about one-fifth of its size in 1872-74, to somewhat less than half its size in 1890, and that between the seasons of 1895 and 1896 there has been a decrease of about 10 per

On p. 22 of his preliminary report, Dr. Jordan estimates the seal-herd in 1896 as consisting of "143,071 breeding females, or a total number of about 440,000 of seals of all grades," and he adds, "there may have been, in 1896, 155,000 breeding seals, or a total of 475,000." Dr. Jordan's matured reflections therefore, on the comparative state of the herd, have apparently led him to consider that the loss during the period 1895-96 was not $7\frac{1}{2}$ per cent. as he thought in November last, but "about

10 per cent.'

In the passage referred to on p. 22, he only carries his comparison back to 1880, when he estimates the herd at "600,000 breeding females, 1,500,000 of all grades," but he has now apparently carried his comparison further back, and estimates that in 1872-74 the herd was about five times its present size. This would mean that at that period the herd numbered 700,000 breeding females, and 2,200,000 seals of all grades collectively, and Her Majesty's Government will await with interest his explanation of the disappearance of 100,000 breeding females and 700,000 seals of all grades in the period between 1872-74 and 1880, when pelagic sealing had not yet begun. Mr. Chamberlain is not aware that it has ever previously been admitted that there was a decrease in the herd between 1872-74 and 1880, and apparently Dr. Jordan himself was not aware of it when he wrote his preliminary Report, as on p. 17 of that paper, he states that "until 1872, and perhaps a few years after, the herd continued to increase. During the period 1872 to 1878, it doubtless remained practically in a state of equilibrium under the various checks acting upon it, of which the trampling of pups was the chief. The North-west catch, which remained stationary at about 5,000 during those years, being another element of check." Whether the earlier or later views of Dr. Jordan are to be taken as expressing his final opinion, the discrepancy shows the difficulty attending the discussion of the question in consequence of the absence of any really trustworthy data on which comparisons of the size of the herd at different periods can be based, and justifies the action of Her Majesty's Government in refusing to be drawn into a discussion of the question until further information has been acquired.

Mr. Sherman again refers to the falling-off in the pelagic catch last year in Behring Sea in support of the contention that the herd has declined, and cites the figures of the catch for 1894, 1895, and 1896, from which it would appear that the catch per vessel in 1896, had fallen off nearly one-

half as compared with 1894.

The catch of 1894 was altogether exceptional, as will be seen from the Table printed at p. 198 of the Report of the Secretary of the United States' Treasury for 1895, and exceeded that of any previous year, as well as that of the subsequent years, and the extraordinary variations in the catch from year to year which characterize the industry, render it impossible to deduce from the average

catch per vessel in any year any safe conclusion as to the state of the herd.

Mr. Sherman questions the assertion that the falling-off in last season's catch was partly due to stormy weather, and cites Captain Hooper's statement that boarding operations were possible during twenty-four days in 1896, as compared with twenty-five in 1895, a statement which Her Majesty's Government have no reason to doubt, though it does not follow that sealing operations in canoes are practicable whenever boarding is practicable, still less that the weather is favourable for sealing, and as Lord Salisbury is aware, Admiral Palliser, in his Report on the season, described the weather as "exceptionally bad." It is unnecessary to elaborate this point further than to add that Her Majesty's Government might equally well maintain from a comparison of the results of the Northwest coast catch in 1895 and 1896, that seals were more numerous in the latter year.

The number of seals is limited, and it is impossible, therefore, that the catch per vessel should remain the same while the number of vessels engaging in it has almost doubled. The presence of a greater number of vessels must necessarily interfere to some extent with each other's operations, and moreover the constant patrolling of the limited area of the fishery by steam-vessels must tend to disturb the seals and diminish the catch, which in Behring Sea is made almost entirely from sleeping seals, even if the constantly repeated boarding to which the British vessels have been subjected had

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not constituted a material hindrance to the operations of the sealing fleet. The extent to which British sealing-vessels have been unnecessarily harassed by the United States patrol-vessels during 1895 and 1896 may be judged from the fact that in 1894, when the British sealing fleet numbered only twenty-two vessels, thirty-six boarding operations were performed, an average of one and a-half per vessel, while in 1895, when a fleet of forty British vessels was engaged, the number of boardings rose to 183, an average of four and a half per vessel, and in 1896 the British fleet of fifty-seven vessels was subjected in Behring Sea alone to 171 boardings by the United States patrol, an average of three times per vessel. It is interesting to note that in 1895 seventy-six United States' vessels were subjected to only 156 boarding operations. If it is borne in mind that at each boarding operation by United States vessels the whole catch is pulled out of the salt in which it is packed, and each skin carefully examined, and then left to be resalted and repacked by the crew of the scaling vessel, some idea may be formed of the extent to which the operations of the sealing fleet are subjected to active obstruction, in addition to the loss caused through the effect of the constant movements of the steam patrol-vessels in scaring the scals. In addition, most of the vessels were boarded one or more times by Her Majesty's ships. It is necessary here to note that, in his efforts to prove the approaching commercial extermination of the fur-seal, Mr. Sherman has, unintentionally, no doubt, by quoting without reference to its context a passage from Lord Salisbury's despatch of the 21st April, placed upon it a construction which is not borne out by its language.

He says:—
"A Table appended to his Report shows that the total product of the pelagic catch of 1896 in the London market was about half the amount of that of 1895, and Lord Salisbury informs us that

this result has 'brought many owners of the sealing-vessels to the verge of bankruptcy.'

What Lord Salisbury did actually say was that "the small eatch and low prices obtained for the skins last year brought many of the owners of the sealing-vessels to the verge of bankruptcy

It is perhaps unnecessary to dwell further on this part of Mr. Sherman's despatch, as it has been answered by anticipation in Lord Salisbury's despatch, of the 7th May, to which no reply has been received, but in view of the fact that Mr. Sherman speaks throughout as if pelagic sealing were the sole cause of the alleged depletion of the herd, it may be well to again call attention to the conclusion there drawn from Dr. Jordan's estimates of the herd at different periods, viz., that the decline of the herd was much more extensive before pelagic sealing became general than it has been since

Mr. Chamberlain cannot pass without notice the attack upon Her Majesty's Government for declining to consider an immediate revision of the Fishery Regulations established by the Arbitration Tribunal at Paris in 1893, as this attack forms so considerable a portion of the despatch, that silence might be construed by the United States' Government as an admission that Mr. Sherman's observations cannot be answered.

The expressed object of the arbitration was "the preservation of the fur-seals," and the Regulations adopted were framed with a view to "proper protection and preservation of the fur-seal

....resorting to Behring Sea.

From a perusal of this despatch of the 10th May it might be inferred that the "proper protection and preservation of the fur-seal" is idential with the suppression of pelagic sealing, and this view is consistent with the attitude maintained by the United States' Government from the outset.

In support of their views the United States' Government have departed from the noblest traditions of their country which had earned universal honour by their efforts to vindicate the freedom of

the high seas.

The nation which is now so zealous for prohibiting the killing of seals on the high seas was, in 1832, with equal zeal asserting a claim of right for its citizens not only to kill seals on the high seas, but to land and slaughter them on the shores of a friendly nation. The Power which now reproaches Her Majesty's Government with "unneighbourly" conduct because they decline to abolish an industry the lawfulness of which has never been questioned except by the United States, and has, only four years since, been vindicated by the highest international Tribunal, did not shrink in 1832, when the United States sealing vessel "Harriet" had been seized for violating the territory of the Republic of Buenos Ayres in the pursuit of fur-seals, from landing an armed party at Soledad and carrying off the crew and cargo of the vessel, and from declaring that the seal fishery on those coasts was in future to be free to all Americans, and that the capture of any vessel of the United States would be regarded as an act of piracy.

The shores of the Pribyloff are to-day just as much uninhabited as were the shores of the Falk-

land Islands and Tierra del Fuego fifty years ago, but no British subject has ever claimed the right to land and kill seals there as the United States' citizens did on the South Atlantic under the protec-

tion of the guns of a United States' man-of-war.

British subjects, and Her Majesty's Government for them, have only claimed the right of every subject of a free State to exercise their undoubted right of fishery on the high seas; yet, while exercising that right, British subjects have been seized, fined, and imprisoned, in the face of the protests of Her Majesty's Government. And now, after Her Majesty's Government, in their desire for an amicable arrangement with the United States, had agreed to submit to arbitration their claim to exercise a right never before disputed, and to leave to the Tribunal to determine when that right had been vindicated, under what restrictions it should, in the interests of both countries, continue to be exercised, and after they have ever since scrupulously adhered to those restrictions, they find themselves, notwithstanding these concessions and sacrifices, accused of unneighbourly conduct.

When the Award was made it was welcomed in the United States because it was believed that the restrictions were sufficient to render pelagic sealing unprofitable, and that the interests of the lessees of the Pribyloff Islands would not under the new condition of affairs be materially or injuriously

affected.

When it was discovered from the results of the first year's fishery that the Regulations, severely as they pressed on the British industry, were not sufficient to destroy it, the United States Government began to press Her Majesty's Government to agree to revise the Regulations. ments as had just before been urged in vain upon the Tribunal were repeated. Pelagic sealing it was declared was suicidal, and the extermination of the fur-seal was imminent. Government refused to agree to set aside an Award arrived at after the most careful deliberation by the Tribunal, merely because it was found that British subjects could, under the restrictions imposed

by it still continue to prosecute their industry successfully.

The agitation and pressure were continued, and exaggerated statements as to the condition of the head were circulated, till, when Her Majesty's Government sent their Agents to inquire into the actual facts in 1896, it was found that, in spite of the large catch of 1895, the herd actually numbered more than twice as many cows* as it had been officially asserted to contain in 1895. The result of these investigations, as pointed out in Lord Salisbury's despatch of the 7th May, has further been to show that pelagic sealing is much less injurious than the practice pursued by the United States lessees of killing on land every male whose skin was worth taking. If the seal herd to-day is, as Professor Jordan estimates, but one fifth of what it was in 1872-74, that result must be, in great measure, due to the fact that, while the islands were under the control of Russia that Power was satisfied with an average catch of 33,000 seals, subsequently under the United States control more than three times that number have been taken every year, until the catch was perforce reduced because that number of males could no longer be found.

Last year while the United States Government were pressing Her Majesty's Government to place further restrictions on pelagic sealing they found it possible to kill 30,000 seals on the islands, of which Professor Jordan says, p. 21, 22,000 were to the best of his information 3-year olds, though p. 17 he estimated the total number of 3-year old males on the islands as 15,000 to 20,000. If such exhaustive slaughter is continued it will, in the light of the past history of the herd, very quickly bring about that commercial extermination which has been declared in the United States to be immi-

nent every year for the last twelve years.

Enough has perhaps been said to justify the refusal of Her Majesty's Government to enter on a precipitate revision of the Regulations, and if further justification were required it is to be found in the nature of the industry as carried on by British subjects, especially if compared with the procee-

dings of United States citizens.

A large amount of British capital has been invested in ships specially fitted for the seal fishery. which cannot readily be turned to other uses, and much skill has been acquired by those employed on the vessels which is useless for other purposes, and Her Majesty's Government would require very complete justification before they could assent to measures which would render a large proportion of this capital and labour unprofitable. The United States industry is carried on on land, no capital is required except a small sum annually for the maintenance of the few Indians on the islands, whose principal sustenance is, in fact, seal's flesh, and for bringing the skins to market. A partial or total cessation of sealing is therefore a light matter to the United States citizens as compared with its result to British subjects.

The sealing industry, moreover, as carried on by British subjects is at best a highly speculative If by good fortune seals are met with in abundance and the weather is suitable it may prove highly remunerative, provided prices are good. But when the weather is bad, and seals are timid and prices at last year are low, heavy losses are incurred. To add to these risks uncertainty as to the conditions under which the industry may be carried on would be equivalent to putting an end Mr. Sherman's strictures on the conduct of Her Majesty's Government should be

read in the light of these facts.

In further support of his indictment of Her Majesty's Government Mr. Sherman proceeds to review "the manner in which it (the British Government) has responded to the action of the Paris Tribunal, and to what extent and in what spirit it has observed the decision and recommendations

of that Tribunal."

This review contains some signal omissions and also some inaccuracies to which attention must Mr. Sherman begins by recalling the fact that when the draft Regulations were submitted to the Tribunal they provided that the Regulations should apply to all the waters of the Pacific Ocean to the north of the thirty-fifth degree of north latitude and that the late Lord Hannen objected to this provision, and moved an amendment limiting the area to that part of the ocean and sea east of the 180th meridian, and he cites part of the words used by the President of the Tribunal in acquiescing in the amendment, but omits the concluding portion which was "Nevertheless, as far as he was concerned he did not desire to do anything which might be prejudicial to the position of Great Britain or of the United States, in the negotiation which the Governments of these two countries might engage ultimately with Russia and Japan." Mr. Sherman also omits to mentioned that the amendment was unanimously agreed to. Lord Hannen's views on this point therefore, were equally shared by his United States colleagues on the Board.

Mr. Sherman continues: "When, in accordance with article VII of the treaty of 1892, the Russian and Japanese Governments were approached with a view to securing their adhesion to the regulations, they both replied they could only do so on their extension to the Asiatic waters," when Secretary Gresham verbally in October, 1893, brought this view of the subject to the attention of the British Ambassador, he recognized the force of the position, and said the situation seemed to suggest the propriety of a treaty between the four powers "for the preservation, for their common

^{*} The number of cows, according to the official estimate of the 1895, was 70,423; the count in 1896 showed 143,071 cows.

benefit of the fur seals between the two continents, and north of the 35th degree of north latitude." As a matter of fact the identic note to the Maritime Powers inviting their adhesion to the regulations was not dispatched till the 20th August, 1894.

In a despatch of the 26th October, 1893, however, Sir J. Pauncefote records a conversation with

Mr. Gresham, in which he reports :-

"He (Mr. Gresham) took the opportunity of mentioning that the Russian and Japanese Governments would probably, as a condition of their adhesion to the regulations prescribed by the Award, insist that the southern limit laid down in Article 2 of the Regulations, namely, the 35th degree of north latitude should be extended as far as the Japanese coast, so as to protect the Russian and Japanese rookeries. Mr. Gresham was of opinion that it would be difficult to resist this demand on equitable grounds, it being based on reciprocity. In reply to his inquiry, I said that the contention might seem plausible enough, but I did not know how it would be viewed by Her Majesty's government. I understand that Mr. Bayard has been instructed to confer with your Lordship thereon."

There is thus a discrepancy between Mr. Gresham's report, as quoted by Mr. Sherman of the language used at this interview by Sir J. Pauncefote, and Sir J. Pauncefote's own report of the same

interview

However, this may be, and whatever instructions may have been sent to Mr. Bayard as to the interests of Russia and Japan, he apparently did not consider that he was desired to bring the question before Her Majesty's Government for his official note of the 20th November made no allusion to the subject, and that note, with the exception of a verbal communication on the 20th September, 1893, expressing the desire of his Government for prompt action in procuring legislation to give effect to the Award, and in securing the adhesion of other powers was the first communication received from him on the question of the Award.

No note from Mr. Gresham of the 23rd January, 1894, on the subject of the seal fishery appears to be on record, and the note of the 24th January, to which possibly Mr. Sherman alludes, contains no allusion to the subject of the Japanese and Russian fisheries, nor does any communication appear to have been made to Her Majesty's Government on the 2nd May, 1894, in reference to this question. Mr. Sherman appears to have been misinformed as to what actually took place in regard to this

matter.

On the 11th March, 1894, Mr. Gresham, in the course of a discussion on the subject of the legislation proposed by the respective Governments for enforcing the Award, threw out a suggestion for a convention between the four powers principally interested, namely: Great Britain, the United States, Russia, and Japan, to embrace a complete scheme of regulations applicable not only to the high seas, but also within the sovereignty of each Power, and he coupled this with a proposal that meantime the modus vivendi established during the arbitration, should be renewed and extended over the whole area of the award. Such a modus vivendi would have practically prevented any pelagic sealing on the eastern side of the Pacific, and would have driven the whole body of pelagic sealers to the western side, the Japanese and Russian fisheries which Mr. Sherman now believes the United States Government were anxious to protect. Her Majesty's government replied, five days later, on the 16th March, that they saw no objection to the proposed negotiation between the four Powers, and were willing to renew the modus vivendi on the same terms as before, but could not consent to its extension.

As the United States insisted on the extension, the proposal dropped for the time.

It is possible that Mr. Sherman may have had in mind the proposals made by Mr. Gresham, on the 23rd January, 1895, to which he previously referred. To that note, after communication with the Dominion Government, a reply was returned on the 17th May, which was received by the United States Government, as Mr. Sherman states in an earlier part of his despatch on the 27th May. That reply, to which Mr. Sherman refers as "complacently" stating "that the condition of affairs is not of so urgent a character as the President has been led to believe," and that there was no "such urgent danger of total extinction of the seals as to call for a departure from the Arbitral award by which the two nations have solemnly bound themselves to abide," contained a very full statement of the reasons for the belief expressed by Her Majesty's Government to which they have not yet had any reply, and Mr. Sherman omits to mention that alternative proposals were submitted for the prosecution of a joint inquiry into the facts, the necessity for which has been fully established by the results of last year's investigation. If that proposal of Her Majesty's Government had been promptly accepted, the first trustworthy information as to the state of the seal herd would have been available at the end of 1895 instead of at the end of 1896, and would have afforded, with the information collected in the latter year, some criterion of the progress or decline of the herd.

The reasons which induced Her Majesty's Government to decline to enter upon a joint negotiation with the three Powers interested in suppressing pelagic sealing were fully set forth in the correspondence, and it is unnecessary here to do more than call attention to the fact that since 1893 Great Britain has had an arrangement with Russia in regard to the seal fishery in which that Power is interested, and that, as the seal herds are generally alleged to be quite distinct and not to intermingle, no advantage would have been gained by a joint negotiation, which could only have been based upon

incomplete knowledge of facts.

Mr. Sherman proceeds further to reflect upon the action of the late Lord Hannen and of Her Majesty's Government in regard to the second declaration annexed to the Award of the tribunal, which urged a suspension for a short period of any killing of seals either on land or sea. Mr. Sherman states that Mr. Gresham instructed Mr. Bayard on the 12th September, 1893, to ask the concurrence of Great Britain in the enforcement of this declaration, and that Mr. Bayard reported on the 13th September that he had made known his instructions to the British Government. Mr. Bayard must have failed to make his meaning clear, for Lord Rosebery's despatch of the 13th September to

Sir J. Pauncefote, recording his conversation with Mr. Bayard, speaks only of arrangements " for carrying into effect the Award of the Behring Sea Tribunal of Arbitration." and makes no reference to the second declaration annexed to the Award. On the 20th of the same month Mr. Bayard communicated a further instruction from his Government on the subject of the enforcement of the Award, but also without any reference to the declarations, as is also the case in the formal note addressed by Mr. Bayard to Lord Rosebery on the 20th November. The first reference to the subject is contained in Mr. Gresham's note to Sir J. Pauncefote of the 24th January, 1894, in which, after urging the early inforcement of the Regulations, he adds "the United States would be glad to prohibit entirely for a period of three years, or for two years, or for one year, the killing of seals, but unless Her Majesty's Government should be willing to agree to that measure it only remains for the two governments at once to give effect to the regulations determined upon by the tribunal as necessary in conformity with the treaty." In forwarding this note Sir J. Pauncefote observed that he had read this statement in Mr. Gresham's note with surprise, as it was inconsistent with his former language on the same subject at an interview on the 13th December, when, as reported by Sir J. Pauncefote in a despatch dated the 16th of that month, Mr. Gresham had stated "as regards the second declaration, respecting a further cessation of seal killing at sea and on land, Mr. Gresham stated that he was opposed to closing the industry during the coming season. Such a course would, he thought, raise a great outcry in this country, and, moreover, it was important to ascertain what had been the effect of the cessation of seal killing for two consecutive seasons in Behring Sea." This language, it need scarcely be observed, disproves Mr. Sherman's belief that the United States government had been urging Her Majesty's government to agree to the adoption of the second declaration from the moment they were informed of it. Moreover, it is to be observed that on the 24th January, 1894, when in the manner quoted, the suggestion to adopt the declaration was thrown out, it was too late, as the sealing fleet had already started for the spring fishery. Her Majesty's Government did not, however, as Mr. Sherman supposes, fail to respond, for in their reply; dated the 24th February, they stated with reference to the suggestion that they were willing to agree as a temporary measure to renew the modus vivendi for the continued closing of Behring Sea. This offer did not meet with the views of

Mr. Sherman's account of the action of Her Majesty's Government in regard to the adoption of measures for enforcing the regulations is also incomplete. In calling attention to the delay which took place in passing the legislation for giving effect to the award, he omits to mention that part of the delay was due to the difficulty caused by the desire of the United States Government to transfer the negotiations to London, although all the previous discussions in connection with the Behring Sea difficulties had been carried on at Washington, and Her Majesty's Ambassador there was fully informed on the whole question, and, further, that for some time the United States Government persisted in a desire to proceed to enforce the regulations by means of a convention instead of by legislation, a course which was impossible for this country, where treaties restricting or interfering in any way with the rights and liberties of the subject require the sanction given by express laws. The proposed legislation, too, mainly affected Her Majesty's subjects in Canada, and it was necessary therefore to refer constantly to the Dominion Government in the matter, and there was no undue

delay on the part of Her Majesty's Covernment in dealing with it.

The British Act received the Royal assent on the 23rd April, 1894, just seventeen days after the United States' Act was passed; the Order in Council giving the necessary powers to United States' officers to act under the British Act was passed on the 30th April, and instructions were sent to Her Majesty's naval officers by telegraph the same evening, and the Act was thus brought into force before the beginning of the close time fixed by the Regulations. The statement in Mr. Sherman's despatch, therefore, that "the British Act to enforce the Regulations was not passed until four months after the sealing season had opened, and the final Order in Council (the 27th June, 1894) on the subject was not issued until six months after the sealing fleet had put to sea in disregard of the Award of the Tribunal" is misleading. The Regulations, except in so far as they prescribed a special flag for sealing vessels, and the making certain entries in the log and taking out a license, all made no change in regard to the methods of sealing during the spring. The legislation was passed in time to enforce the close season, and during the close season arrangements were completed with the United States in regard to the flags, &c., and it was to give effect to these arrangements that the second Order in Council, viz., that of the 27th June was passed, more than a month before the close season ended. It is difficult therefore to know what is exactly meant by saying that "the sealing fleet had put to sea in disregard of the Award of the Tribunal," unless it refers to the departure of the fleet for the coast fishery in which the Award makes practically no change.

In regard to the charge of neglect of the police duties under the Award, Mr. Chamberlain would observe that the sealing fleet consists entirely of small sailing-vessels. In 1894 forty-four were employed during the spring season, and thirty-seven in Behring Sea. In 1895 the number in the spring season was fifty-two, and in Behring Sea fifty-nine, and in 1896 the numbers were forty three and sixty-seven respectively. The main duty of the patrol is to prevent infringement of the 60-mile zone in Behring Sea, and to prevent sealing during the close time, and even if the masters of the sealing-vessels were bent on evading the law, instead of being, as they are, most anxious to conform to it, Her Majesty's Government are satisfied that one man-of-war or revenue-cutter is quite equal to

looking after eight small sailing-schooners.

Her Majesty's Government also send three vessels to patrol the western side of the Pacific to see to the enforcement of the arrangement with Russia, and though United States pelagic sealers equally engage in the fishery on that side, and United States have a similar arrangement in regard to it, Mr. Chamberlain has never heard of any United States vessel taking any part in the patrol on that side, and Her Majesty's Government have, therefore, had employed in the patrol of the seal fisheries on one side of the Pacific or the other five or six men-of-war as a rule, as compared with five or six revenue-cutters on the part of the United States, and they have every reason to believe

that this force is ample for the discharge of the proper duties of the patrol.

The "strange misconception of the true spirit and intent of the Arbitrators," said by Mr. Sherman to have been developed on the part of the British Government, has been entirely on the part of the United States—a misconception which Her Majesty's Government have frequently had to point out. The Agreement for allowing vessels to have their arms sealed up was not renewed, because, as Mr. Sherman was well aware, it was made a pretext by United States officers for the unwarrantable seizure of two British vessels. Moreover, Her Majesty's Government made provision for the examination of sealing-vessels before clearing for Behring Sea, and the issue to them of certificates by the Customs authorities, to the effect that they had no fire-arms on board. The United States' Government declined to accept these certificates and insisted that British sealing-vessels should undergo a further and, as might be expected, unsuccessful search at the hands of a United States' officer.

The United States Government can scarcely have seriously expected that Her Majesty's Government would consent to cast such a grave aspersion on the character of their officials. The Award, it must be remembered, is carried out, so far as British vessels are concerned, under a law of the Imperial Parliament, and Her Majesty's Government have accepted the assistance of United States commissioned officers in enforcing that law, but they have not conferred on them, nor did the Tribunal of Arbitration suggest that they should confer on them, the duty of supervising and controlling the action of British naval or customs officers appointed to that duty, and they are pleased to think that in spite of all the boarding and searching with which the British sealing fleet has been harassed, not a single instance has been established of the use of fire-arms by British vessels contrary

to the Regulations.

The so-called serious defect in the British Act for the enforcement of the regulations is the next point in Mr. Sherman's indictment. He refers to the omission of the clause, contained in the Act passed to carry out the modus rivendi of 1891, which provided that the presumption of guilt would lie against the vessel having on board fishing or shooting implements, or seal-skins at forbidden times or in forbidden waters, and declares that "the practical effect is to make it impossible in many cases to convict British sealing-vessels, although there may be the strongest presumptive evidence of guilt, evidence which, under the Act of Congress, would in most cases procure the conviction of an

American sealing-vessel."

It would have been of much assistance to Her Majesty's Government if Mr. Sherman had mentioned one or two of these cases, as only ten British vessels have been seized during the three years that the Act has been in force. Of these, two were seized in 1894, not for violation of the Award, but having unsealed arms on board, the alleged arms in one case being a musket with the barrel cut down, used for signalling to the vessel's boats. There was absolutely no evidence in either case that the arms had been used, and the Admiral decided not to bring vessels so improperly seized to trial. One vessel was seized last year by the United States on the pretext that there was a shot-hole in one of the skins, though the most exhaustive search failed to reveal any arms on board, and after a few days' detention the United States' officer in charge of the patrol released her. There remain only seven vessels, therefore, brought to trial in three years, and of these four have been convicted and heavy fines or forfeiture inflicted. The cases referred to by Mr. Sherman are therefore reduced to three. One of these vessels was seized on the ground that the master had not entered up in his log for two days the number of seals taken, and the Court promptly dismissed the case with costs against the prosecutor. The other vessel released had been seized on a charge of using fire-arms in killing seals in Behring Sea. Having been previously sealing on the Japan coast, where the use of fire-arms is allowed, on entering Behring Sea the master had his ammunition and arms carefully counted by the United States' officers at Attu before beginning sealing. When searched subsequently there appeared to be some discrepancy in the ammunition, and one skin had a hole in it presenting an appearance like that of a shot-hole. The discrepancy in the ammunition was fully accounted for, but the vessel was sent for trial, and of course acquitted. The third case of acquittal was somewhat similar to the last, except that the evidence was even less strong, and the Commander of the British patrol fleet only sent her for trial because his instructions gave him no discretion where a distinct offence is charged against a vessel by a United States' officer. It is implied that because the clause making the possession of sealing implements prima facie evidence justifying seizure appeared in the Act for the enforcement of the modus vivendi in 1891 it should also have appeared in the Act of 1894 for enforcing the Award. But the circumstance were completely altered. Under the modus vivendi Behring Sea was closed to sealing. If a vessel with sealing equipment was found within the welldefined limits of the sea, her presence raised the presumption that she was there for an unlawful purpose. The Award, on the other hand, established a close season over the whole area of the North Pacific east of 180° from the 1st May to the 1st August. When the close season begins the sealers have to find their way back to port through the closed area for hundreds of miles with their arms and skins on board. Before the season opens in Behring Sea they have again to find their way through the closed area with their equipment on board to be ready to begin operations as soon as the close time ends. If the clause were in the British Act every one of the vessels either going to or returning from the prosecution of their lawful fishery could be seized solely because of the possession of the implements and produce of her calling. It would be evidently unjust to enforce such a

Even if the operation of the clause were restricted to the 60-mile zone in Behring Sea, it would obviously, with the fogs and currents there prevailing, when for days together it is impossible to get

a sight of the sun, be unjust to presume that whenever a sealing-vessel was found inside a geographical line which she may have had no opportunity of fixing, that she was necessarily there for an unlawful purpose. Such a measure would be contrary to the spirit of justice, and inflict unnecessary and unmerited hardships on a part of Her Majesty's subjects who are most anxious to observe the

law in every particular.

The final instance cited by Mr. Sherman of "the failure and refusal" of the British Government to give full effect to the Paris Regulations," deals with the question of the entries required in the official log-books of the number and sex of the seals taken. He speaks of the "daily" entry, though the word does not appear in the Regulations, and complains that the Returns furnished by British sealing vessels are untrustworthy, and that Her Majesty's Government have refused to allow the catch of British sealing vessels to be examined in Canadian ports by United States' Inspectors.

Mr. Sherman omits to mention the contention of Her Majesty's Government that the results of such inspection for the purpose of determining the sex of the seal from which the skin has been taken are at the best of very doubtful value, and that although in the case of males three years old or over, or of females which have borne young, it is possible to determine the sex from an examination of the skin with more or less accuracy, it is not possible to do so with any approach to certainty in

the case of the skins of young males or females.

Mr. Sherman's charges are summed up in the final paragraphs of his despatch. They have been answered above in detail and it has been shown in regard to the alleged refusal to extend the Regulations to the Asiatic waters that Regulations believed at the time by Her Majesty's Government and the Government of Russia to be adequate in regard to these waters, have been in force there since 1893, and that when Russia in 1895 complained of their inadequacy, Her Majesty's Government took the first opportunity in 1896 of inquiring into the state of the herd on the Russian Islands, and are conducting fur investigation with the same object this year.

In regard to the refusal of Her Majesty's Government to agree to the total suspension of the killing of seals for a period of years, it has been shown that such a measure was in the first instance deprecated by the United States Government, and when it was brought up it was too late, though in any case Her Majesty's Government could not have agreed to such a measure, as it would have

involved the ruin of an important British industry.

The alleged neglect to put the Regulations in force until after sealing had been entered upon has been answered by showing that all the substantive Regulations were enforced by the date fixed by the Tribunal.

The "evasion of the patrol duty" has been disposed of by showing that Her Majesty's Government have actually had a larger force engaged in patrolling the seal fisheries of the Pacific than the

United States, and that the force is more than adequate for the purposes.

The "opposition to suitable measures for the enforcement of the prohibition against fire-arms" has been shown to be unfounded. The possession of fire-arms by a sealing-vessel is not in itself illegal. It is their use which is prohibited, but it has been shown that British vessels do not clear with firearms, that no instance of their use has been established, and that Her Majesty's Government were compelled to withdraw from the arrangement for the sealing of arms, because they found that not only did it no serve to save British vessels from unnecessary interference, but was actually made a pretext for unwarrantable seizures.

They have not omitted to enact legislation necessary to secure the conviction of the guilty, but

they have refused to pass legislation certain to embarrass and injure the innocent.

They have refused to seek legislation authorizing an inspection of skins because they do not

believe that such an inspection would serve any useful purpose.

They have performed with the utmost rigour all the requirements of the Award, but they have had to make continual and unavailing protests against the attempts of the United States to hamper

and embarrass the operations of British subjects pursuing their lawful vocation.

The fact that in spite of these embarrassments British sealers have been able to prosecute their industry with success has led to the continual efforts of the United States to obtain such further Regulations as would effectively prevent that result, without regard to the object aimed at the Tribunal in the Regulations they laid down, which was to preserve the seal fishery for the benefit of

Her Majesty's Government have never argued that the Regulations were perfect, but, they have maintained that before they can be revised in a scientific manner accurate information as to the increase or decrease of the herd must be available, and that such information can only be obtained by accurate observations extending over a sufficient period to enable accidental circumstances to be climinated, and as soon as that is at hand they will be ready to enter on a discussion of the question in the impartial and friendly spirit with which they can confidently claim to have acted throughout this controversy.

I am, &c.,

(Signed) EDWARD WINGFIELD.

PROHIBITION OF PELAGIC SEALING BY CITIZENS OF THE UNITED STATES.

Legislation has recently been adopted and approved by the President of the United States prohibiting a citizen of the United States or person owing duty of obedience to the laws or treaties of the United States, or person belonging to or on board a vessel of the United States from engaging in the industry of Pelagic sealing in the waters of the Pacific Ocean, north of the thirty-fifth degree of north latitude, and including Behring Sea and the Sea of Okhotsk.

The text of this Act, together with that of the regulations approved by the President for the enforcement of that part prohibiting the importation of skins taken in such waters into the United States, are contained in the Treasury circular

hereunder:-

PROHIBITION OF THE KILLING OF FUR-SEALS IN THE WATERS OF THE NORTH PACIFIC OCEAN, AND OF THE IMPORTATION OF FUR-SEAL SKINS TAKEN IN SUCH WATERS.

TREASURY DEPARTMENT, OFFICE OF THE SECRETARY,

Washington, D. C., December 30, 1897.

To the Collectors and other Officers of the Customs:

The following act prohibiting the killing of fur-seals in the waters of the North Pacific Ocean, and the regulations made thereunder are published for the information and guidance of all concerned:

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That no citizen of the United States, nor person owing duty of obedience to the laws or the treaties of the United States, nor any person belonging to or on board of a vessel of the United States, shall kill, capture, or hunt, at any time or in any manner whatever, any fur-seal in the waters of Pacific Ocean north of the thirty-fifth degree of north latitude and including Behring Sea and the sea of Okhotsk.

SEC. 2. That no citizen of the United States, nor person above described in section one, shall equip, use, or employ, or furnish aid in equipping, using or employing, or furnish supplies to any vessel used or employed, or to be used or employed in carrying on or taking part in said killing, capturing, or hunting of fur-seals in said waters, nor shall any vessel of the United States be so used or

employed.

Sec. 3. That every person guilty of a violation of this Act, or of any regulations made thereunder, shall, for each offense, be fined not less than two hundred dollars or more than two thousand dollars, or imprisoned not more than six months, or both; and every vessel, its tackle, apparel, furniture, and cargo, at any time used or employed in violation of this Act, or of the regulations made

thereunder, shall be forfeited to the United States.

SEC. 4. That if any vessel of the United States shall be found within the waters to which this Act applies, having on board fur-seal skins or bodies of seals or apparatus or implements suitable for killing or taking seals, it shall be presumed that such vessel was used or employed in the killing of said seals, or that said apparatus or implements were used in violation of this Act until the contrary is proved to the satisfaction of the court.

Sec. 5. That if any violation of this Act or of the regulations thereunder may be prosecuted either in the district court of Alaska or in any district court of the United States in California,

Oregon, or Washington.

SEC. 6. That this Act shall not interfere with the privileges accorded to Indians dwelling on the coast of the United States under section six of the Act of April sixth, eighteen hundred and ninetyfour, but the limitations prescribed in said Act shall remain in full force.

SEC. 7. That this Act shall not affect in any way the killing or taking of fur-seals upon the

Pribilof Islands, or the laws of the United States relating thereto.

SEC. 8. That any officer of the Naval or Revenue-Cutter Service of the United States, and any other officers duly designated by the President, may search any vessel of the United States in port or on the high seas suspected of having violated or of having an intention to violate the provisions of this Act, and may seize such vessel and the offending officers and crew and bring them into the most accessible port of the States and Territory mentioned in section five of this Act for trial.

SEC. 9. That the importation into the United States by any person whatsoever of fur-seal skins taken in the waters mentioned in this Act, whether raw, dressed, dryed, or manufactured, is hereby prohibited, and all such articles imported after this Act shall take effect shall not be permitted to be

exported, but shall be seized and destroyed by the proper officers of the United States.

SEC. 10. That the president shall have power to make all necessary regulations to carry this Act into effect.

Approved, December 29, 1897.

REGULATIONS.

1. No fur-seal skins, whether raw, dressed, dyed, or otherwise manufactured, shall be admitted to entry in the United States, unless there shall be attached to the invoice a certificate, signed by the United States consul at the place of exportation that said skins were not taken from seals killed within the waters mentioned in said act, specifying in detail the locality of such taking, whether on land or at sea, and also the person from whom said skins were purchased in their raw and dressed state, the date of such purchase, and the lot number. Consuls shall require satisfactory evidence of the truth of such facts by oath or otherwise before giving any such certificate.

No fur-seal skins, raw, dressed, dyed, or otherwise manufactured shall be admitted to entry as part of a passenger's personal effects unless accompanied by an invoice certified by the consul as

herein provided.

All fur-seal skins, whether raw, dressed, dyed, or otherwise manufactured, the invoices of which are not accompanied by the certificate above prescribed, shall be seized by the collector of

customs and destroyed as provided for section 9 of the act of December 29, 1897.

2. Every article manufactured, in whole or in part, from fur seal skins, the invoice of which is presented as aforcaid to the consul, shall have legibly stamped thereon the name of the manufacturer and the place of manufacture, and shall be accompanied by a statement in writing under the oath of said manufacturer that said skin or skins used in said article were taken from seals not killed at sea within the waters mentioned in said act, specifying the locality in detail, and also the person from whom said skins were purchased in their raw and dressed state, the date of said purchase and the

3. When an application is made to a consul for a certificate under these regulations the invoice and proofs or origin presented by the exporter shall be submitted to the Treasury Agent designated for the purpose of investigation, and the consul shall not certify any such invoice until agent shall

have made his report.

4. All articles manufactured in whole or in part from fur-seal skins and imported into the United States shall have the linings thereof so arranged that the pelt of the skin or skins underneath shall be exposed for examination.

5. All fur-seal skins, whether raw, dressed, dryed, or otherwise manufactured in whole or in part, whether imported as merchandise of a passenger's effects, shall be sent to the public stores for

careful examination and inspection to prevent evasion of the law.

All garments made in whole or in part of seal skins, and taken from this country may be re-entered on presentation of a certificate of ownership from the collector of customs of the port of departure, which certificate shall have been obtained by the owner of the garment by offering the same to the collector for inspection before leaving this country.

7. Nothing in these regulations shall affect the right of any officer of the customs to inspect and seize any fur-seal skin or garment imported which he may find to have been imported in violation of

said act.

APPROVED

L. J. GAGE, Secretary of the Treasury.

WILLIAM McKINLEY.

THE BEHRING SEA CLAIMS COMMISSION.

The nature and personnel of this commission was explained in the report of last year, and it was shown that the written arguments of the counsel for both countries and the reply of the counsel on behalf of Great Britain, were to be presented in time to permit of a meeting at Montreal on the 16th June of this year.

This was done and pursuant to the adjournment at Victoria the meeting was

held at Montreal on the date named.

This meeting occupied one day, some incidental work being necessary besides

the examination of some witnesses produced on behalf of the United States.

It was then arranged that the meeting of the commission for the final oral argument of counsel should take place at Halifax, and accordingly the sessions began on the 25th August in the Legislative Council Chamber of the Provincial Building of Nova Scotia.

The argument proceeded without ajournment other than incident to the daily

sessions, and was concluded on the 29th September.

The commissioners held their final session at Boston, in December, 1897, and determined the extent to which the United States were liable to Great Britain in respect of the claims filed, assessing the respective amount of compensation to be paid to Her Majesty on behalf of the owners, masters, officers and crews of the different vessels; the interest allowed being at the rate of 6 per cent, which was the statutory rate at Victoria, British Columbia, during the period covered. The award is distributed as followed:—

	Damages.	Interest.	Award.
Vessels' Claims.	\$ ets.	\$ ets.	\$ cts
Carolena Choruton Onward. Pavourite Anna Beck W. P. Sayward Oolphin Grace Alfred Adams Ada Friumph Fuanita Pathfinder. Black Diamond Friumph Lily Ariel Kate Minnie Pathfinder Winnifred Henrietta Oscar & Hattie	13,341 72 13,521 10 9,376 00 3,202 00 21,692 50 12,537 50 31,484 00 26,213 50 10,124 00 20,902 69 1,750 00 11,493 00 13,796 00 15,173 00 15,450 00 4,950 00 3,050 00 8,460 00 8,060 00 3,283 05 9,599 85 2,250 00	9,020 71 9,142 53 6,339 74 2,165 08 13,366 19 7,725 22 19,399 38 16,125 67 6,238 07 12,880 01 1,078 29 5,702 44 6,845 12 7,528 32 7,665 77 5,832 48 2,456 03 1,513 31 4,197 57 370 67 1,061 52 2,421 19 715 05	22,362 43 22,663 63 15,715 74 5,367 08 35,058 69 20,262 72 50,883 38 42,339 17 16,362 07 33,782 70 2,828 29 17,195 44 20,641 12 22,701 32 23,115 77 17,571 48 7,406 33 4,563 31 12,657 57 1,170 67 4,344 57 12,021 04 2,965 05
Totals	264,188 91	149,790 36	413,979 27
Personal Claims of Masters and Mates.			
Daniel Munroe. ohn Margotich Ians Guttormsen Harry Norman ames Ogilvie ames Blake D. Warren ohn Reilly George R. Ferey A. D. Laing Louis Olsen J. Keefe V. Petit J. A Lundberg Totals	3,000 00 2,500 00 3,000 00 2,500 00 3,000 00 2,500 00 2,500 00 1,500 00 2,000 00 1,500 00 2,000 00 1,500 00 2,000 00 1,500 00 2,000 00 1,000 00	2,028 50 1,690 42 2,028 50 1,690 42 2,028 50 1,690 42 1,232 33 924 25 1,232 33 924 25 1,232 33 924 25 1,232 33 924 25 1,232 33 924 25 1,232 33 924 25	5,028 50 4,190 42 5,028 50 4,190 42 5,028 50 4,190 42 3,232 33 2,424 25 3,232 33 2,424 25 3,232 33 2,424 25 3,232 33 2,424 25 3,232 33 1,616 17
Grand Totals	294,188 91	169,265 36	463,454 27

It will be seen that in regard to the vessels claims the assessment has been divided thus: damages, \$264,188.91; interest, \$149,790.36; award, \$413,979.27; and in respect of the personal claims of the masters and mates, the division is: damages, \$30,000.00; interest, \$19,475.00; award, \$49,475.00.

The total amount of damages allowed is therefore :-

	Damage	es.	Interest		Award.	
Vessels Personal claims			\$149,790 19,475		\$413,979 49,475	
Totals	\$294,188	91	\$169,265	36	\$463,454	27

To this, however, should be added the provisional awards in respect of the schooner "Black Diamond" and of the personal claim of Captain James Gaudin, as follows:—

	Damage	es.	Intere	est.	Award,
"Black Diamond"	\$5,000	00 .	\$3,075	00	\$8,075 00
Capt. Gaudin	1,000	0.0	616	17	1,616 17
-	\$6.000	00	\$3,691	17	\$9,691 17
	Ψ0,000	00	40,001		40,001 11

Which will raise the total award to \$473,145.44.

Owing to the absence from the country of the parties interested, these latter claims were not formulated at the time the schedule which was eventually submitted to the Paris tribunal was prepared, and as a motion for striking them out had been made by the counsel on behalf of the United States before the commissioners, the question was reserved.

It transpired that it was the intention of the parties to the treaty that all claims should be adjudicated upon, and although the commissioners finally dismissed these particular claims as not being within their jurisdiction under the strict terms of the convention, they made, at the instance of the negotiators of the two govern-

mentts, a separate report finding damages as above stated.

The article on the Behring Sea question contained in the departmental report for 1895, embraces a list and summary of the claims as submitted to the United States Government in the diplomatic correspondence.

RUSSIAN SEIZURES-"WILLIE McGOWAN" AND "ARIEL."

In the report for 1893, p. CIV, under the heading "Pelagic fur-sealing," is an account of the seizure of Canadian schooners by the Russian authorities in 1892, together with the text of the decision in each case, of a commission appointed by the Russian Imperial government to enquire into the several cases.

Among the seized schooners were the "Willie McGowan" and "Ariel," in respect of which the commissioners decided that the seizures were not regular, although maintaining the other seizures and interferences, some seven in number.

An offer was made by the Russian Government of \$40,078.75, compensation for the seizure of these two vessels which offer was accepted by both Her Majesty's government and that of Canada as a full settlement of the claims of the "Willie McGowan" and "Ariel."

Respectfully submitted,

R. N. VENNING.

Ottawa, 31st December, 1897.

APPENDIX No 14.

Schedule of Fishery Officers in the Dominion of Canada, as revised to December, 1897.

Note—Names in *italics* receive no salary, (Of.) means Officers, (W.) Wardens, (I.) Inspectors, (G.) Guardians and (Agt.) Agent.

PROVINCE OF ONTARIO.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Sheppard, U. B(I)	Townto	Progringe of Ontanio
Dunn, Capt. E	Owen Sound	Having jurisdiction over Georgian Bay and the Great Lake
Kyle, Morrison	Rat Portage	Lake of the Woods and other waters of Rainy River district The whole district of Algoma.
Pim, Chas. Jas	Caribou Island	Lake Superior around Caribou Island. From the Otter Head, Lake Superior to French River, Algon
Macdonald, J. K	Toronto	Lake Kagawong, Manitoulin Island.
Lamorandière P R de	Killarney	Georgian Bay from Current to French River
$egin{aligned} Barron, Ed., jr. & & \ Lamondin, Joseph. & & \end{aligned}$	Byng Inlet	do Gladstone Island to Sophia Rock.
Huff, Thomas W	Snug Harbour	do from Killarney to Byng Inlet. do Gladstone Island to Sophia Rock. do part of Parry Sound Harbour. do vicinity of Pointe au Baril.
Smith, Frank J	Penetanguisnene	Georgian Bay, from French River to Point Marks.
	Lafontaine	do from Point Marks to Pointe Boucher. do around Christian, Hope and Beckwith Island
Edmonstone, Robt Lennox, Isaac	Ballaclava	do from Colpoy's Bay to Cape Hurd.
Briggs, Chas	North Keppel	Lake Huron, from Cape Hurd to Southampton, inclusive.
Ball, H. W	Parkhill	do from Goderich to Blue Point.
Pollock, J. C Raymond, C. W	Mitchell's Bay	Lake St. Clair, from Little Lake to its head.
Boismier, Joseph		River, and from thence to its outlet.
Bartlett, Horace H	North Harbour Id.	Lake Erie, around Point Pelee Island and adjacent islands. do North Harbour and Middle Sister Island
Malott, E. A	Kingsville	Lake Erie, fronting on the county of Essex. do do Essex.
Laird, Jas. K Freeland, Wm	St. Thomas	do do Elgin
		Lake Erie, fronting on the counties of Norfolk, Haldimane as far as South Cayuga.
Couper, Archibald	Dunnville	Lake Erie, from South Cayuga to Moulton Bay and Gran River, from mouth to division lines, townships of Car borough and North Cayuga.
Farrell, John Kerr, Fred	Cayuga	Grand River, from and including North Cayuga to Brantfor Having jurisdiction over all Ontario, but district proper con
,		prises Lake Ontario, from Burlington Beach, to Niagai River and Lake Erie to Low Banks.
Stobo, Isaac	Scarboro'	Lake Ontario, from Burlington Beach to Port Credit.
Hall, Thos	Lloydtown	Hall's Lake, York County. Lake Ontario, fronting on the counties of Northumberlan
		and Durham and tributaries thereof. Rice Lake in electoral district of West Northumberland wi
man, onas	l or o riope	Trent and Keene Rivers and tributaries thereto.

FISHERY OFFICERS.

Schedule of Fishery Officers, &c.—Continued.

PROVINCE OF ONTARIO—Continued.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
		Lake Ontario, fronting on the county of Ontario South. Bay of Quinte, from Deseronto to head waters of said bay in the township of Murray, also that portion of Trent River in counties of Northumberland and Hastings.
		Lake Ontario, fronting on the county of Prince Edward. do counties of Lennox and Addington, and upper
		Lake Ontario, fronting Earnestown township in Lennox and
		Head of Bay of Quinté from Three Brothers' Island, near
Vanass, Philip	Wolfe Island Toronto	Lake Ontario, around Wolfe, Horse-shoe and Pigeon Islands. The waters around Toronto Island, including Toronto and
Purdy, John	Kingston	Lake Ontario, fronting on the townships of Pittsburg and Kingston, county Frontenac,
Craig, Wm(G) Cox, John Acton, Nassau	Glenburnie Howe Island Gananoque	Ashbridge Bays and River Don. Lake Ontario, fronting on the townships of Pittsburg and Kingston, county Frontenac. Township of Storrington, county Frontenac. Lake Ontario and River St. Lawrence, around Howe Island. River St. Lawrence, from Wolfe Island to Jack Straw Lighthouse, Admiralty Islands; also part of Gananoque River.
Miron, Olivier	Alfred	house, Admiralty Islands; also part of Gananoque River. River St. Lawrence, Sheriff's Point to Head of Grenadier Id. do from Rockport to Prescott. do from Brockville to Cornwall. South Nation River, county of Prescott. Ottawa River and its tributaries, from Ottawa to Fitzroy
Riddle, Matthew	Mohr's Corners	township, county of Carleton. Ottawa River, from Fitzroy to McNab, including Lake des
		Ottawa River, from McNab to Horton and Lake des Chats. Lake Nipissing, Sturgeon, Mattawa River, French River and
Bastedo, David E	Bracebridge	Townships of Macaulay, McLean, Ridout in N. R. Ontario
Castle, Henry Green, Jediah	Gravenhurst Stirling.	Co., and Franklin, Bennett and Stephenson in Mukoka. Lakes Muskoka, Skeleton, Rousseau and Joseph. Townships of Huntingdon, Hungerford, Sydney, Thurlow and Tyendinaga, county Hastings. Townships in Parry Sound of Cowper, Foley, Christie, McDougall, McKellar, Ferguson, Carling, Shawanaga, Burpee, Hagerman, Harrison, Burton and Mackenzie. Townships of Walbridge, Brown, Wilson's Mills, Mowat, Blair, McKonkey and Hardy, in Parry Sound. Townships of Croft, Chapman, Strong, Joly, Laurier, Machar, Lount, Ferrie, Mills, Pringle, Gurd and Himsworth, in Parry Sound.
Steele, George R	Lorimer Lake	Townships in Parry Sound of Cowper, Foley, Christie, Mo- Dougall, McKellar, Ferguson, Carling, Shawanaga, Burpee, Hagerman, Harrison, Burton and Mackenzie.
Forsyth, Edmund	Loring	Townships of Walbridge, Brown, Wilson's Mills, Mowat, Blair, McKonkey and Hardy, in Parry Sound.
Lockhart, Wm	. Denville	Townships of Croft, Chapman, Strong, Joly, Laurier, Machar, Lount, Ferrie, Mills, Pringle, Gurd and Himsworth, in Parry Sound.
Clarke, Geo	Orillia	Lakes Simcoe and Couchiching, also Rivers Severn and
McDermott, Wm McFayden, H	Beeton Durham	South Riding of the county of Simcoe. The head waters of Saugeen River and tributaries. North branch of Sydenham River, from junction with main
McQueen, Tim. Crotty, John. McCann, Peter Croome, W. P.	ChathamBothwellLondonMount Vernon	river, to its sources. River Thames, from its mouth to Lewisville. do from Lewisville to Wardsville. do from Wardsville to London. Grand River and its tributaries, from Brantford upwarks. North Riding of the county of Wellington. The whole Electoral District of Cardwell. Credit River and its tributaries in the counties of Dufferin and Peel.
Coleman, David Hughson, Andrew	Alton Orangeville	The whole Electoral District of Cardwell. Credit River and its tributaries in the counties of Dufferin and Peel.
Veal, John	Nestleton	East side Lake Scugog southerly including the east side of Scugog Island in the township of Reach, county Ontario and fronting in township Cartwright in county of Dur-
Blakely, Alex Bowerman, John	Port Credit Port Perry	ham. Credit River from Norval to its mouth, in the county of Peel. West side of Lake Scugog from Washburn's Island including west side Scugog Island township of Reach.
Bradshaw, Arch	. Lindsay	west side Scugog Island township of Reach. Inland waters of township of Ops, Victoria County.

SCHEDULE of Fishery Officers, &c .- Continued.

PROVINCE OF ONTARIO—Concluded.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Bowen, J. C	Marmora	Townships of Marmora, Madoc, Elzever, Rawdon, and Bel-
Fitzgerald, Geo. W	Lakefield	The county of Peterborough within the townships of Harvey, Burleigh, Dummer, Douro, Smith and Ennismore, also Otonabee River from Peterborough to Rice Lake.
Breeze, David	Peterborough	Otonabee River, from Peterborough to Rice Lake, county of Peterborough.
Gainforth, Wm	Haliburton	Gull and Burnt Rivers and tributaries, with Drag, Eagle, Moose, Redstone and Crooked Lakes, in Peterborough.
Sweet, B. H	Bancroft	Inland waters of Hastings County, lying north of townships of Lake, Tudor and Grimsthorpe.
Purcell, H. R	Enterprise	Townships of Camden, Portland, Lougboro', Sheffield and Kennebec, in Addington.
Stalker, Jas.	Plevna	Townships of Palmerston, Clarendon, North Canonto, South Canonto and Miller, in Addington.
Lake George	Tichbourne Delta	That part of Frontenac north of Loughboro' Lake. Upper and lower Beverly Lakes and Wittse and Mud Lakes, in Leeds, and tributaries to Morton, Lyndhurst and Griffin Lakes, in the county of Leeds.
Moorehead, John	Long Point	From Lyndhurst to the division line, between Leeds and Lansdowne, in the county of Leeds.
Greer, Jas	Outlet	Gananoque River from Marble Rock to township of Lansdowne, county of Leeds.
Bullis, S. Y Jeacle, George	Athens	Charleston Lake, in the county of Leeds. Rideau, Upper Rideau, Openicon, Otty, and neighbouring Lakes, county of Leeds.
Ross, Jas. H(G) Deacon, Eph Campbell, R. O	Bolingbroke	Rideau River, Burritt's Rapids to Smith's Falls. River Tay and tributaries, and Fall Bay River, in Lanark. Rideau River and tributaries, from Ottawa to Burritt's Rapids, including Jock River, in Carleton.
McCuaig, R. C. W	Ottawa	Province of Ontario.

PROVINCE OF QUEBEC.

Hon. Peter Mitchell (I.). Montreal Province of Quebec and Maritime Provinces.
Lavoie, Nap. (Of.). L'Islet Lower St. Lawrence River and Gulf.
Gregory, J. U. (Agt.) Quebec Having jurisdiction in the whole province of Quebec.
Smith, Joseph Cedar Hall Lake and River Metapedia, in the county of Bonaventure.
Brown, Chas Escuminac Restigouche River and its tributaries in the Cos. of Restigouche
and Victoria, N.B., and Rimouski and Bonaventure, P.Q.
Green, Jas Magnasha Bay des Chaleurs, Co. Bonaventure, coast from Maguasha to
Grand Cascapedia River, inclusive.
Forest, George Bonaventure River Bay des Chaleurs, Co. Bonaventure, coast from Grand Cas-
capedia River to Pasbebiac.
Chapados, F. X L'Anse au Gascon. Bay des Chaleurs, Co. Bonaventure, coast from Paspebiae to
Point Macquereau.
Keays, John
Langlois, Walter Douglastown do from corner of the Beach to Cape Rosier.
Aspireau, Moïse Griffin Cove do from Cape Rosier to Fame Point.
Chevrier, J. A Amherst, M. I Gulf of St. Lawrence around the Magdalen Islands.
*Joncas, P. L House Harbour, Madalen Islands, except Amherst and Entry Islands.
Magdalen Islands
Letourneau, Louis Montlouis River St. Lawrence, county of Gaspé, from Fame Point to
Duchesnay township.
Bouchard, Didace Ste. Anne des River St. Lawrence, county of Gaspé, parishes of Duchesnay,
Monts. Christie, Tourelle and Cap Chatte.
Marin, Fabien Ste. Félicité River St. Lawrence, county of Rimouski, from Cap Chatte to
River Blanche, including River Matane.
Thériault, Edouard Rimouski River St. Lawrence, county of Rimouski.
Lavoie, Zéphirin St. Anaclet River St. Lawrence, County Rimouski.
Levesque, Nap Isle Verte River St. Lawrence, fronting on the county of Témiscouata-

^{*}Collector of customs; specially connected with the fishing bounty.

Schedule of Fishery Officers, &c.—Continued.

PROVINCE OF QUEBEC—Continued.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Sirois, George	Kamouraska	River St. Lawrence, fronting on the county of Kamouraska, to Pointe à la Loupe, county Témiscouata.
Gagnon, Ephrem	St. Michel de Bellechasse.	River St. Lawrence, fronting on the counties L'Islet, Mont-
Huot, L. P	Malbaie	magny, Bellechasse and Lévis. River St. Lawrence, around the Island of Orleans. North Shore of the River St. Lawrence, fronting on the county of Charlevoix. Lakes in rear of Murray Bay and Bay St. Paul.
Catellier, L. N. Comeau, N. A.	Godbodo	Waters of counties of Chicoutimi and Saguenay. Gulf of St. Lawrence, county of Saguenay from Manicouagan to Baje des Rochers (Galbout Division).
Mignault, T	Montmagny	Gulf of St. Lawrence, county of Saguenay from Baie des
Duberger, Geo	Pointe à-Pic, Char- levoix.	Gulf of St. Lawrence, county of Saguenay from Sheidrake
	Cape Cove, Gaspé.	Gulf of St. Lawvrence, on the county of Saguenay from
Legouvie, John (W.)	Lobster Cove, — Gaspé.	Gulf of St. Lawrence, county of Saguenay and extending
Whitely, W. H	St. John's Nfld	Gulf of St. Lawrence, county of Saguanay, from Checatica to
Longy David	New Ireland	Dakes Hour, William, District,
McCaw, John		Megantic. Lakes in counties of Sherbrooke and Stanstead, also Lakes Brompton and Aylmer, in the counties of Richmond and Wolfe.
Dupuy, Louis	Echo Vale	Counties of Richmond and Wolfe. About 10 miles of the waters of Lakes Mégantic and Spider with the tributaries in the county of Compton.
Carr, Guy	. Compton Station.	
Boynton, Chas. G Ball, Hugel Phelps, Sylvester E. W Sturtevant, Sydney Manson, Jeremiah M	Georgeville Tuck's Landing Bolton Centre Knowlton Potton Potton	The west side of Lake Memphremagos, in the county of Brome. Township of Bolton, east and west, in the county of Brome. Brome Lake, county of Brome. Township of Potton, county of Brome.
Luke, P. E Levêque, Pierre Dion, J. O DeWitt, Henry	Grande Ligne Chambly Canton Châteauguay	Richelieu River, from St. Johns to Lake Champiain. Richelieu River, from Sorel to Richelieu Village. Lake St. Louis, west to and from Mouth of Châteauguay River, including said River to Châteauguay Town,
Dannotto Honore		The District of the Country of the C
		Mouth of Châteauguay River. Inland waters county Châteauguay except that part of Châteauguay River from the town of Châteauguay to its Mouth.
Riendeau, Joseph	Jacques Cartie Square, Montre	River St. Lawrence, from Huntington southern boundary to
Morris, John	St. Lambert	River St. Lawrence, the counties of Chambly and Laprairie
Robitaille, Chas		St. Lawrence River, counties of L'Assomption and Vercheres,
McMillan, John D		That part of St. Lawrence River known as Lake St. Francis, fronting on the county of Huntington, including inland
Mongeau, Paul		
Piché, L. N	Drummondville. Bécancourt	River St. Francis, in the county of Frankasa, in the county of Nicolet. River St. Lawrence and Lake St. Peter, county of Nicolet. do fronting on and including the county of
Caron, Gabriel	Louiseville	St. Maurice and Three Rivers. River St. Lawrence and Lake St. Peter, counties of Maskinongé and Berthier.
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Schedule of Fishery Officers, &c.—Continued.

PROVINCE OF QUEBEC—Concluded.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Filiatrault, Damien	Ste. Rose, Laval	The Rivers Jésus and des Prairies, in the counties of Terrebonne, Two Mountains, Laval, Jacques Cartier and Hochelaga.
Belisle, Jos		County Terrebonne.
Montpetit, Julien Boivin, Jos Paquet, Urgèle	Isle Perrot	River St. Lawrence, fronting on Jacques Cartier County. do surrounding Isle Perrot. do fronting on the county of Soulanges. Lower Ottawa River, from Oka to Carillon, and North River,
Quesnel, Arthur	RigaudVaudreuil	Ottawa River, from Point Fortune to Como. Ottawa River, from Como to Point Cascades. Both sides of the Ottawa River, fronting on the counties of
Weisemer, Emiel Mohr, Irwin	Blanche South Onslow	North side of Ottawa River fronting on the county.
Coghlan, J. T	Chapeau	Pontiac, from county line to River Coulonge. Ottawa River, county of Pontiac, from Fort Coulonge to Des Joachims.

PROVINCE OF NOVA SCOTIA.

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	North Sydney Pictou	District No. 1.—Cape Breton Island. District No. 2.—Cumberland, Colchester, Pictou, Antigonish,
		Guysboro', Halifax and Hants counties. District No. 3.—Lunenburg, Queen's, Shelburne, Yarmouth, Digby, Annapolis and King's counties.
	Annapolis County.	
Parker, Hamilton	Port George	The whole county of Annapolis.
	Antiyonish County.	
McAdam, Alex. R	Malignant Cove	The whole county of Antigonish.
	Cape Breton County	
McPherson, Joseph Lovitt, Henry McCuish, John McDonald, Joseph McInnis, Michael R McLean, John McLean, Murdock Rees, C. E Sullivan, Timothy	Little Loraine Little Loraine Amagnadus Pond Gabarus Lake Leitch's Creek Cow Bay Little Bras d'Or.	The whole county of Cape Breton. Cape Breton County. do do do do do do do do do do do do
Davidson I W	Colchester County.	
McGregor, E. H.	Lower Stewiacke.	The county of Colchester.
	Cumberland County	
Fowler, Elijah Angevine, Frank Reid, John D. Smith, Geo. O.	Middleboro Pugwash	de
	Digby County.	
Bishop, Geo. B	Digby Meteghan	Municipality of Digby, do of Clare,

Schedule of Fishery Officers, &c .- Continued.

PROVINCE OF NOVA SCOTIA—Continued.

	PROVINCE OF	NOVA BOOTTA—Comment
Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Davis, Joseph	Guysboro' County. Guysborough Port Hillford	County of Guysborough.
	Halifax County.	
Kennedy, Wm		
	Hants County.	G
Mosher, Jas. R		County of Hants, West Hants.
McKeen, Lewis Chisholm, Arch. A	Mabou S. W. Margaree N. E. Margaree Eastern Harbour.	No. 1—Western division. No. 2—Southern division. No. 3—Mabou division. No. 4—Eastern division. No. 5—Northern division. No. 6—Part of Northern division. Inverness coast from Pleasant Bay to Meat Cove inclusive.
	King's County.	and the second s
Miller, Jas. S McIntyre, W Reid, R. F	Aylesioiu	The state of the s
	Lunenburg Count	
Webber, John A Solomon, W. M	Chester W. LaHave Ferr	The whole county of Lunenburg. do do
McDonald, Alex. J McQueen, J. D	Bailey's Brook	Eastern division, from Antigonish county line to Pictou Hi Southern division, comprising Sutherland, Moose, East ar
	Non Clascow	St. Mary Rivers. Central division, comprising Pictou Hr., and East, West an Middle Rivers. Western division, from Colchester Co. line to Cole's Representation.
	Queen's County	
Freeman, J. N	Liverpool	The whole of Queen's county.
	Richmond Coun	ty.
Boyle, Dougald R Morrison, Archd Brymer, Arthur	Arichat West Cannes Lower L'Ardois	No. 1. Isle Madame and Arichat Division (No. 2. Western). Whole county. se No. 3. Eastern division.
	Shelburne Cour	ty.
Hines, Geo. K Goudey, E. S		From Clyde River to Lambaur
	Victoria Coun	ar a Milila division
Campbell, Chas. L McCharles, Danl Hellen, Wm Fraser, Jno. A	Middle River.	ton. No. 2. Middle division. No. 3. Southern divison. The whole of Victoria county. do do

Schedule of Fishery Officers, &c.—Continued.

PROVINCE OF NOVA SCOTIA—Concluded.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
	Yarmouth Co.	
Hatfield, Abram M	Arcadia	The whole of Yarmouth county.
	PROVINCE	OF NEW BRUNSWICK.
Pratt, J. H(I) Chapman, Robt. A. (I)	St. Andrews Moncton	District No. 1. The county of Charlotte. District No. 2. Restigouche, Gloucester, Northumberland, Kent, Westmorland and Albert counties. District No. 3. St. John, King's Queen's, Sunbury, York,
Miles, H. S (I)		District No. 3. St. John, King's Queen's, Sunbury, York, Carleton and Victoria counties. The whole province.
, - · · · · · · · · · · · · · · · · · ·	Albert County.	and whole province.
Dowling Caleb. S		The whole county of Albert.
Campbell, D. F	Grand Manan	Vicinity of Campobello and West Isles. Inner Bay, Passamaquoddy. Grand Manan Island and spawning grounds. Parishes of St. George, Pennfield and Lepreau. The whole of Charlotte county.
	Gloucester County.	
anty, Thos	Petit Rocher Bathurst Inkerman	County of Gloucester. do do do do
-	Kent County.	
Leblanc, Olivier J. O	Buctouche	Parishes of Wellington and St. Mary. The whole county of Kent.
	King's County.	
Brown, James	Hammond Vale	Lakes in Hammond Parish.
	$Northumberland\ Co$	
Villiston, J. G Abbott, Lemuel	Bay du Vin Chatham	South part Miramichi Bay to Point au Quart. Miramichi River to Newcastle.
e	Queen's County.	
Hetherington, J. T	Johnston	The whole of Queen's county.
	Restigouche County.	
AcLean, Donald	Charlo Escuminac, P.Q	Baie des Chaleurs, Belledune to Dalhousie. From Dalhousie to Tide Head.
	Sunbury County.	,
IcLean, Cecil H		County of Sunbury.
	St. John County.	
ochrane, John	ICR Station St	St. John city and vicinity.
'Br Joseph	John	St. John county.

SCHEDULE of Fishery Officers, &c .- Continued.

PROVINCE OF NEW BRUNSWICK—Continued.

Name of Overseer.	P. O. Address.	Extent of Jurisdiction.
Wilson, Leonard		The whole county of Victoria.
Melançon, Ambroise Copp, Geo. E	Westmorland Co. Pré d'en haut Bay Verte Shediac	Dorchester Parish and Petitcodiac River. Parishes of Sackville and Westmorland and part of Botsfore Parishes of Salisbury, Moncton, Shediac and that part of Botsford to Big Shemogue Harbour.
Orr, Robt	York County. Fredericton	The whole county of York.
	PROVINCE OF	PRINCE EDWARD ISLAND.
Lord, A(Agt.). Matheson, J. A(I.). Davison, John. Nolan, Dan. Hobkirk, W. C	Charlottetown Campbellton Bedeque Souris Charlottetown;	Prince Edward Island. do do The county of Prince. do of King's. do of Queen's.
	PROV	INCE OF MANITOBA.
Tupper, R. Latouche (I Gardner, Rich	Winnipeg	. The province of Manitoba. do do Lakes Manitoba, Ebb and Flow, Dog and tributaries. Within his district as forest ranger. In his district as Crown timber agent.
	NORTH	-WEST TERRITORIES.
Miller, E. W	Qu'Appelle. Silton. Edmonton. Prince Albert. Holbrooke. Stobart. Calgary.	All the North-west Territories. The Silton District. District of Edmonton. do of Prince Albert. do of Peace Hills, Alberta. do of Prince Albert, Saskatchewan. do vicinity of Calgary.
	PROVINCI	E OF BRITISH COLUMBIA.
McNab, John (I.) McKay, J. W. Meason, W. L. Philips, Michael. Higginson, T. S. Ellison, Price Gaudin, Capt. James (A Walbran, J. T., Capt. Galbraith, N. M.	New Westminster Kamloops William's Lake Kootenay New Westminster Vernon Qo do do	The province of British Columbia. District of Yale, B.C. Kootenay, R., from Clinton to Barkerville. do district. In his district as Crown timber agent. O'Kanagan lake and river. Having jurisdiction in the whole province. do do do do do do

Schedule of Fishery Officers, &c .- Continued.

FISH CULTURE.

Name.	Rank.	P. O. Address.
Walker, John. Finlayson, Alex. Catellier, L. N Davis, Henry Mowat, Alex. McCluskey, Chas. Sheasgreen, Isaac. Ogden, A do Kehoe, W	do do Asst. officer in charge of Government Fish Hatchery. Officer in charge of Government Fish Hatchery. do do do do do do do do do Government Lobster Hatchery. Asst. officer in charge of Government Fish Hatchery. Officer in charge of Government Fish Hatchery.	Sandwich, Ont. Ottawa, Ont. Magog, Que. Tadoussac, Que. Gaspé Basin, Que, Campbellton, N.B. Grand Falls, N.B. South Esk, Miramichi N.B. Bedford Basin, N.S. Pictou, N.S. Sydney, C.B., N.S. New Westminster, B.C.

All captains of the Fisheries Protection Service are also fishery officers, with power of a justice of the peace for all purposes of the Fisheries Act. During the season of 1897 they were as follows:-

Commander O. G. V. Spain, of the cruiser "Acadia."

Capt. S. Bélanger, of the cruiser "Aberdeen." Capt. J. H. Pratt, of the cruiser "Curlew."

Capt. Geo. M. May, of the cruiser "Constance."

Capt. W. H. Kent, of the cruiser "Kingfisher." Capt. C. T. Knowlton, of the cruiser "Osprey."

Capt. Ed. Dunn, of the cruiser "Petrel," for Ontario.

Capt. G. W. Pearson, of the cruiser "Dolphin," for Ontario. Capt. J. T. Walbran, of the cruiser "Quadra," for British Columbia.

RECAPITULATION OF FISHERY OFFICERS.

Province.	Number of Officers.
Ontonio	
Ontario	100
Vova Scotia	69
Wew Brunswick	58
rince Edward Island	31
lanitoba	5
orth-west Territorios	5
ritish Columbia. fficers and crews of the fisheries protection vessels	7
fficers and crews of the fisheries protection vessels. ishery guardians employed during the season of 1997	9
ishery guardians employed during the season of 1897.	178
Th. 1	210
Total	(27.)
	672











